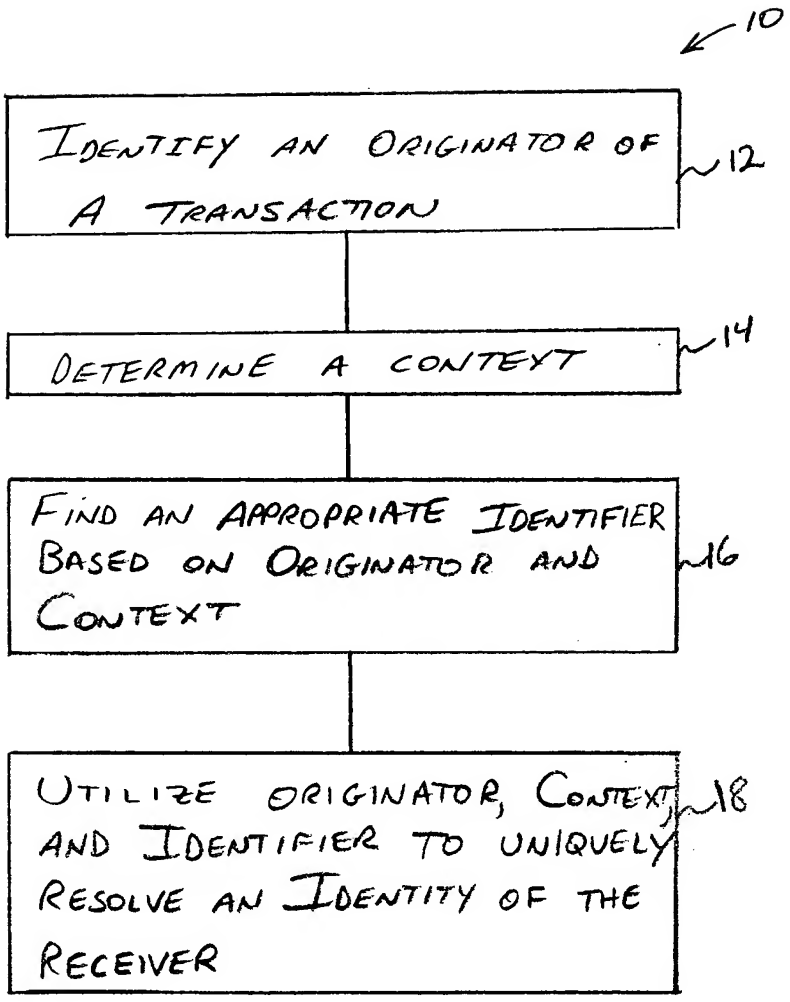

10
IDENTIFY AN ORIGINATOR OF A TRANSACTION
12
DETERMINE A CONTEXT
14
FIND AN APPROPRIATE IDENTIFIER BASED ON ORIGINATOR AND CONTEXT
16
UTILIZE ORIGINATOR, CONTEXT, AND IDENTIFIER TO UNIQUELY RESOLVE AN IDENTITY OF THE RECEIVER
18

FIG. 1

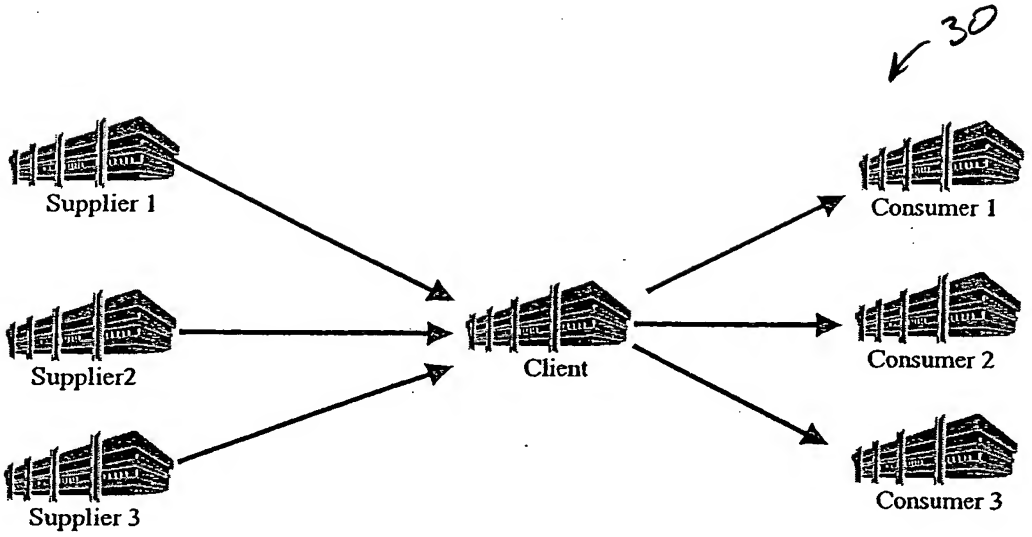

30
Supplier 1
Supplier2
Supplier 3
Client
Consumer 1
Consumer 2
Consumer 3

Fig. 2

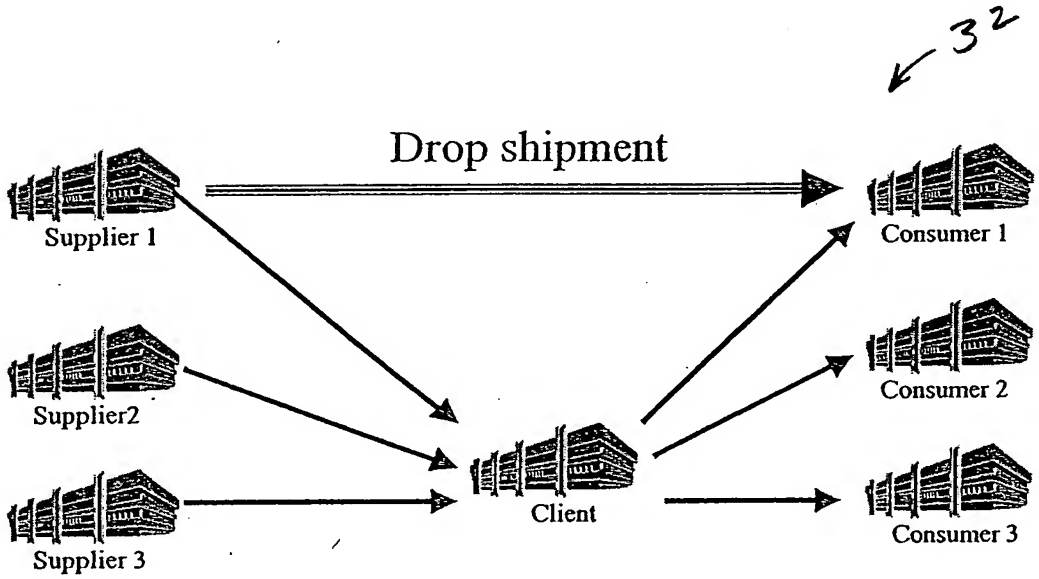

32
Drop shipment
Supplier 1
Supplier2
Supplier 3
Client
Consumer 1
Consumer 2
Consumer 3

Fig. 3

34

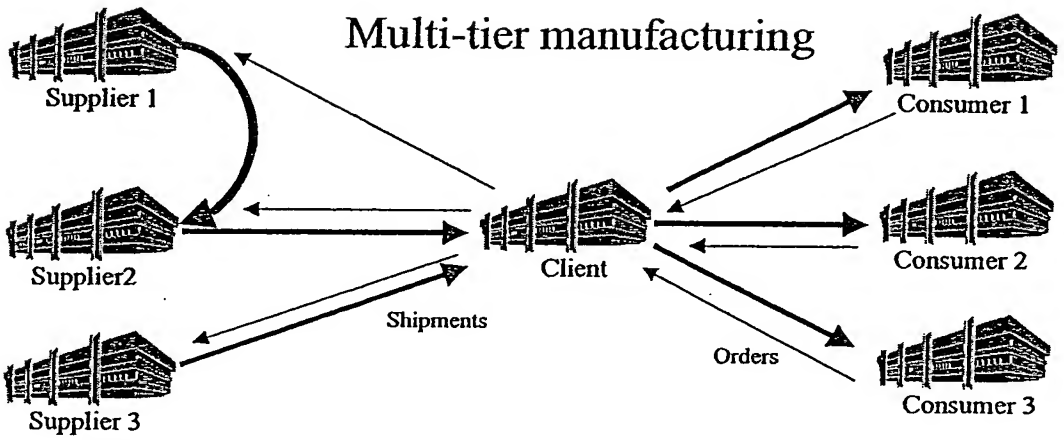

Multi-tier manufacturing
Supplier 1
Supplier2
Supplier 3
Client
Shipments
Orders
Consumer 1
Consumer 2
Consumer 3

Fig. 4

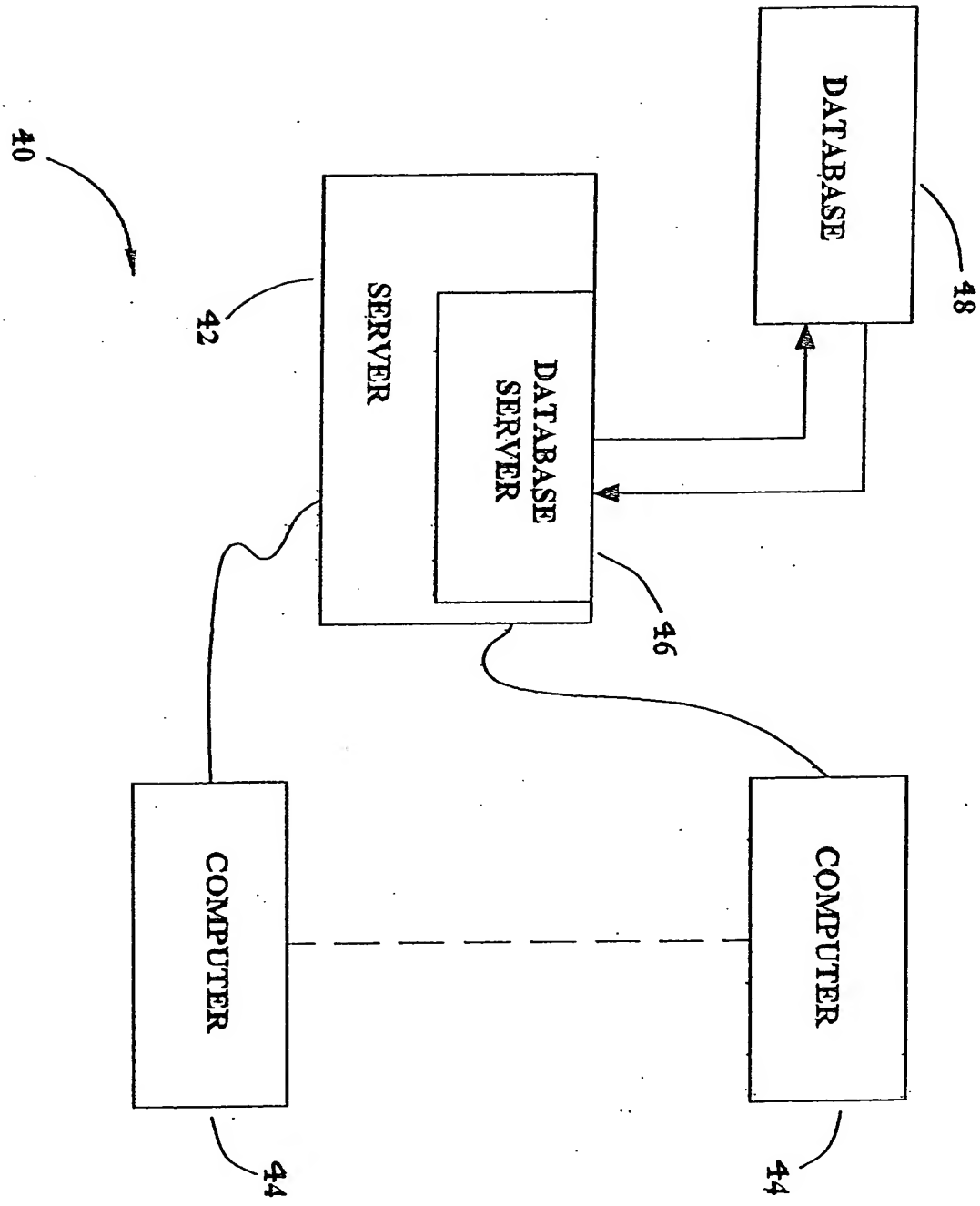

40
42
SERVER
DATABASE SERVER
46
DATABASE
48
COMPUTER
44
COMPUTER
44

Fig. 5

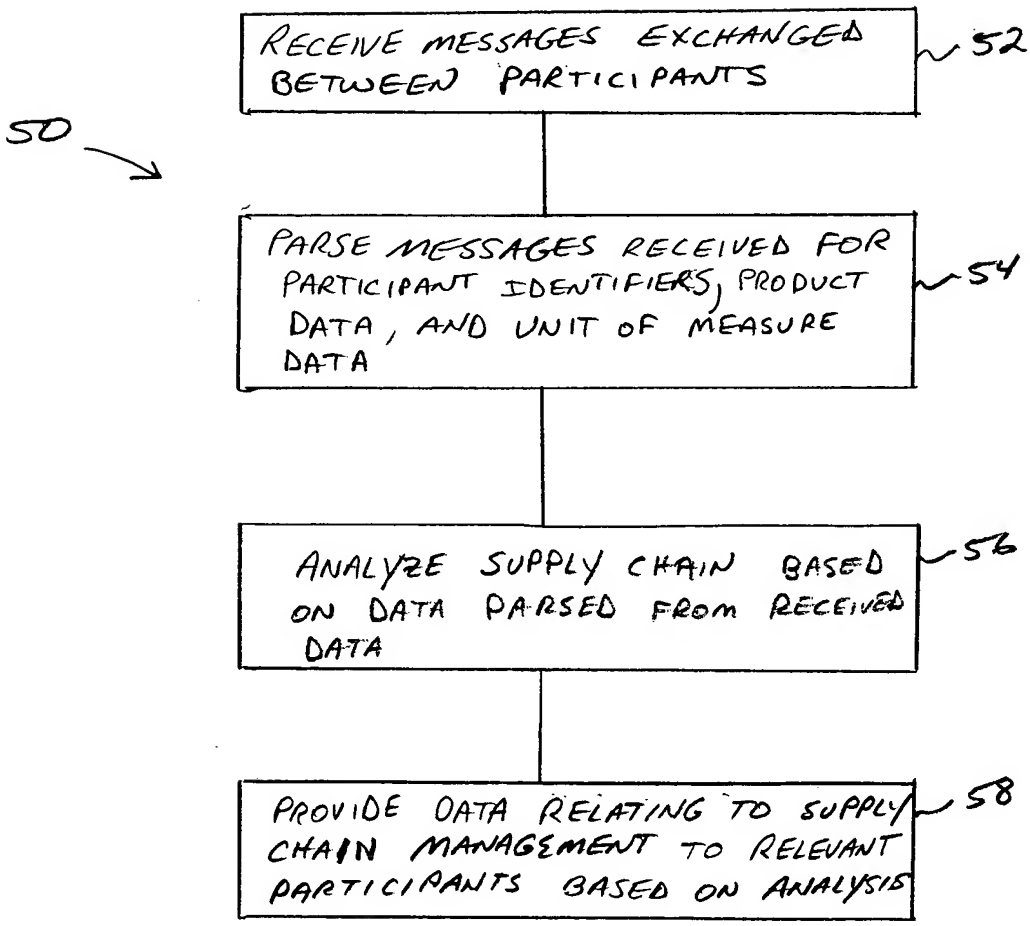

50
RECEIVE MESSAGES EXCHANGED BETWEEN PARTICIPANTS
52
PARSE MESSAGES RECEIVED FOR PARTICIPANT IDENTIFIERS, PRODUCT DATA, AND UNIT OF MEASURE DATA
54
ANALYZE SUPPLY CHAIN BASED ON DATA PARSED FROM RECEIVED DATA
56
PROVIDE DATA RELATING TO SUPPLY CHAIN MANAGEMENT TO RELEVANT PARTICIPANTS BASED ON ANALYSIS
58

FIG. 6

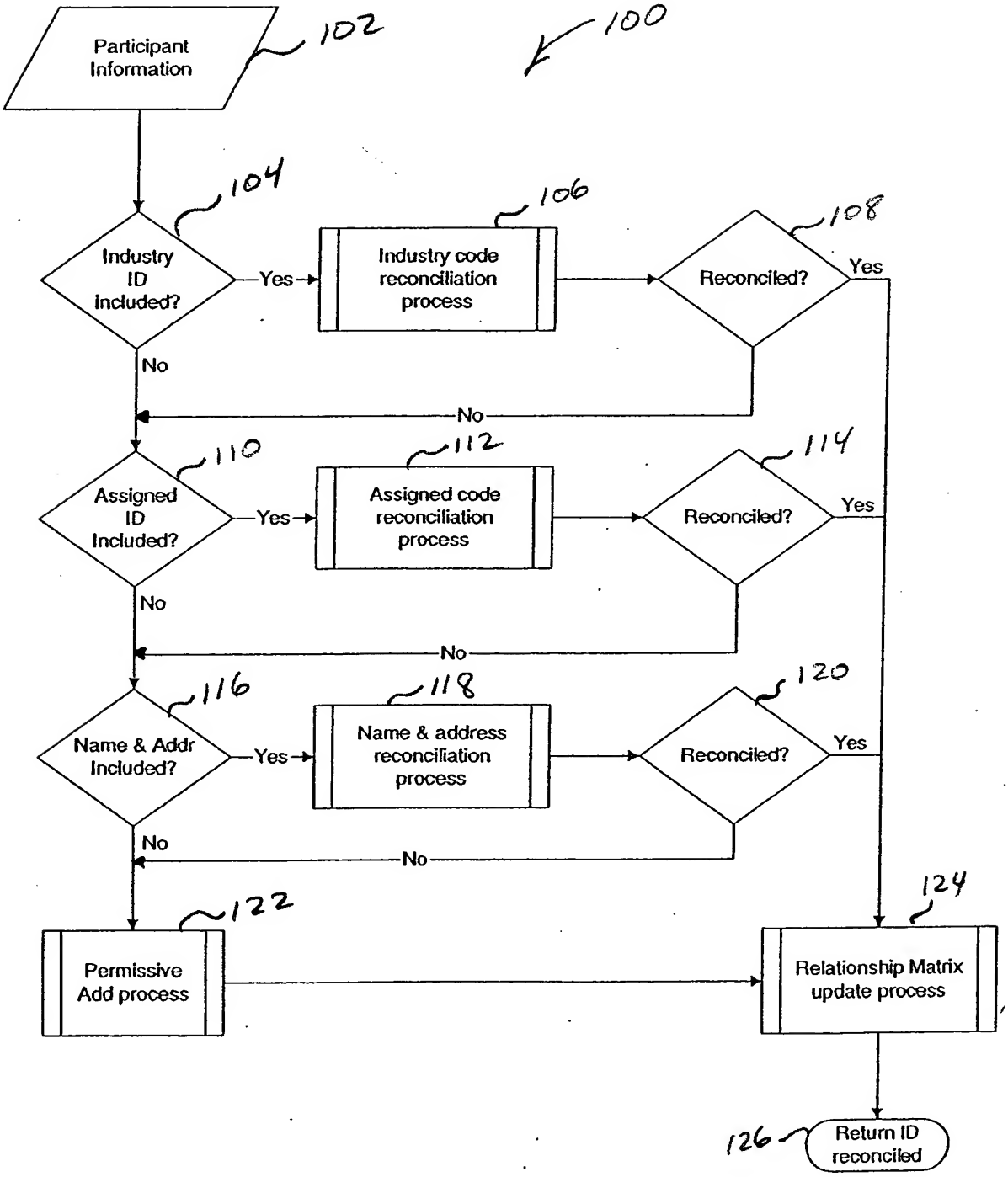

Participant Information
102
100
104
Industry ID Included?
Yes
106
Industry code reconciliation process
108
Reconciled?
Yes
No
No
110
Assigned ID Included?
Yes
112
Assigned code reconciliation process
114
Reconciled?
Yes
No
No
116
Name & Addr Included?
Yes
118
Name & address reconciliation process
120
Reconciled?
Yes
No
No
122
Permissive Add process
124
Relationship Matrix update process
126
Return ID reconciled

Fig. 7

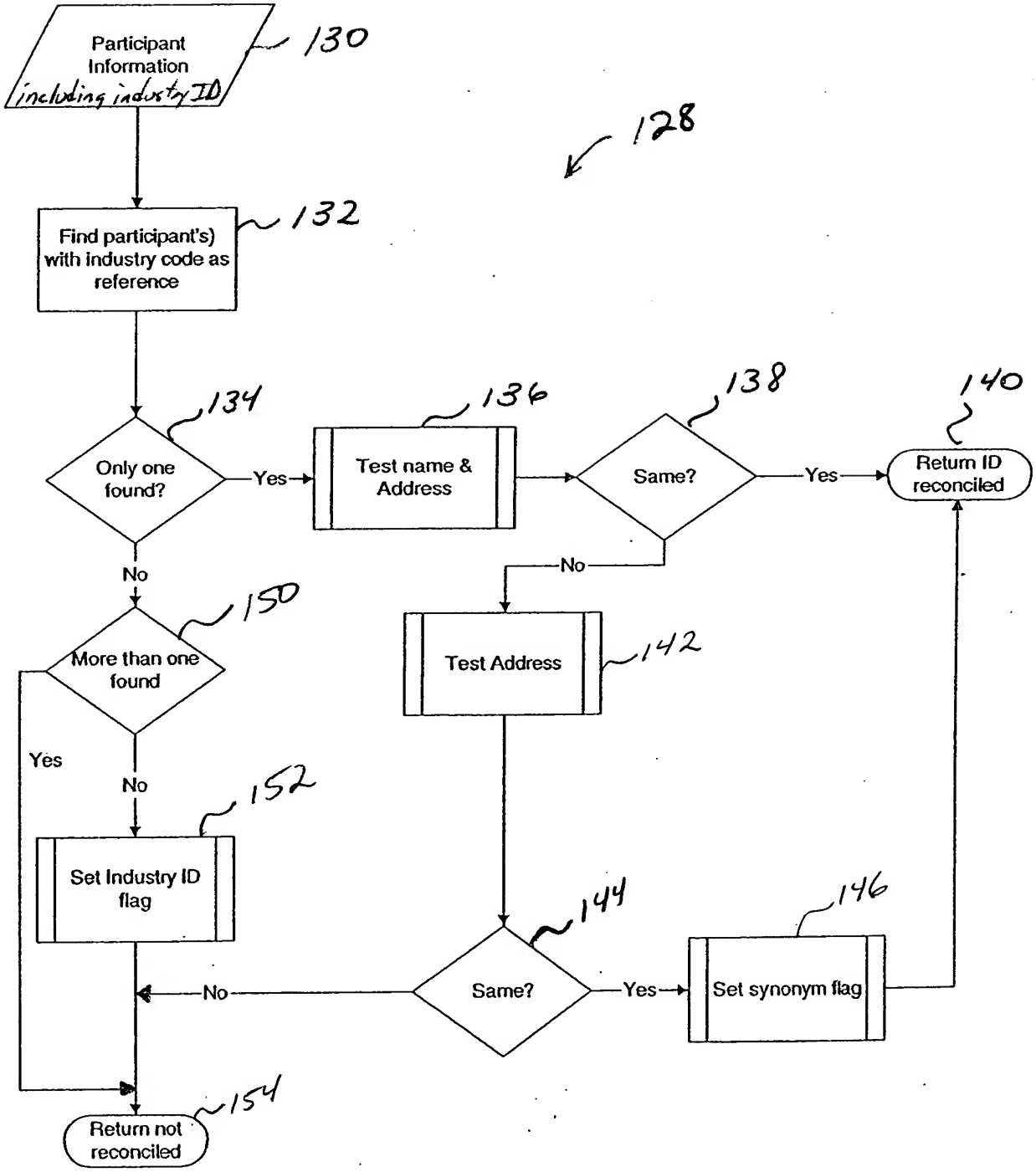

Participant Information including industry ID
130
128
Find participant's) with industry code as reference
132
Only one found?
134
Yes
Test name & Address
136
Same?
138
Yes
Return ID reconciled
140
No
No
More than one found
150
Test Address
142
Yes
No
Set Industry ID flag
152
Same?
144
No
Yes
Set synonym flag
146
Return not reconciled
154

Fig. 8

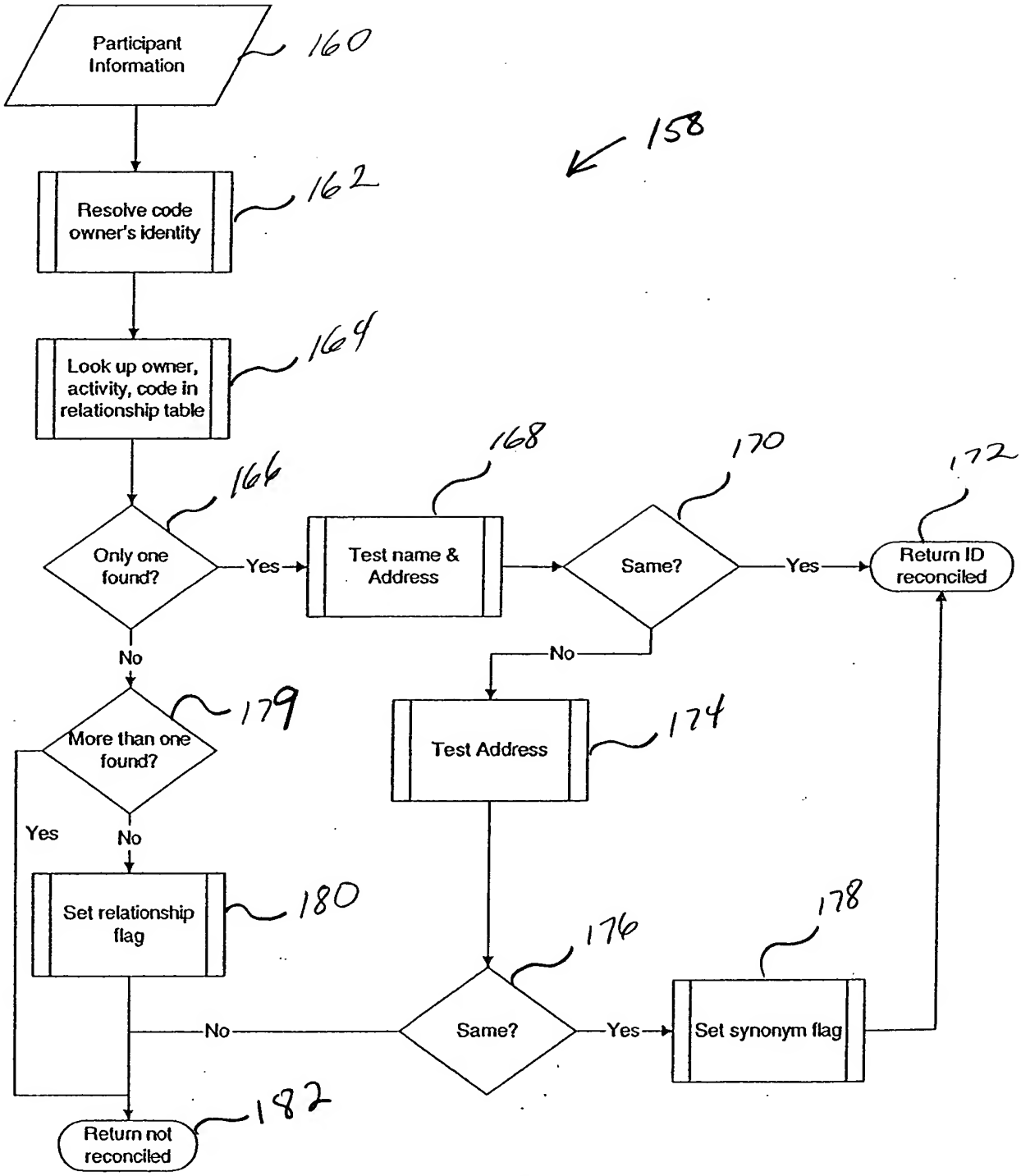

Participant Information
160
158
Resolve code owner's identity
162
Look up owner, activity, code in relationship table
164
Only one found?
Yes
168
Test name & Address
170
Same?
Yes
172
Return ID reconciled
No
No
179
More than one found?
Yes
No
Test Address
174
Set relationship flag
180
176
Same?
No
Yes
178
Set synonym flag
182
Return not reconciled

Fig. 9

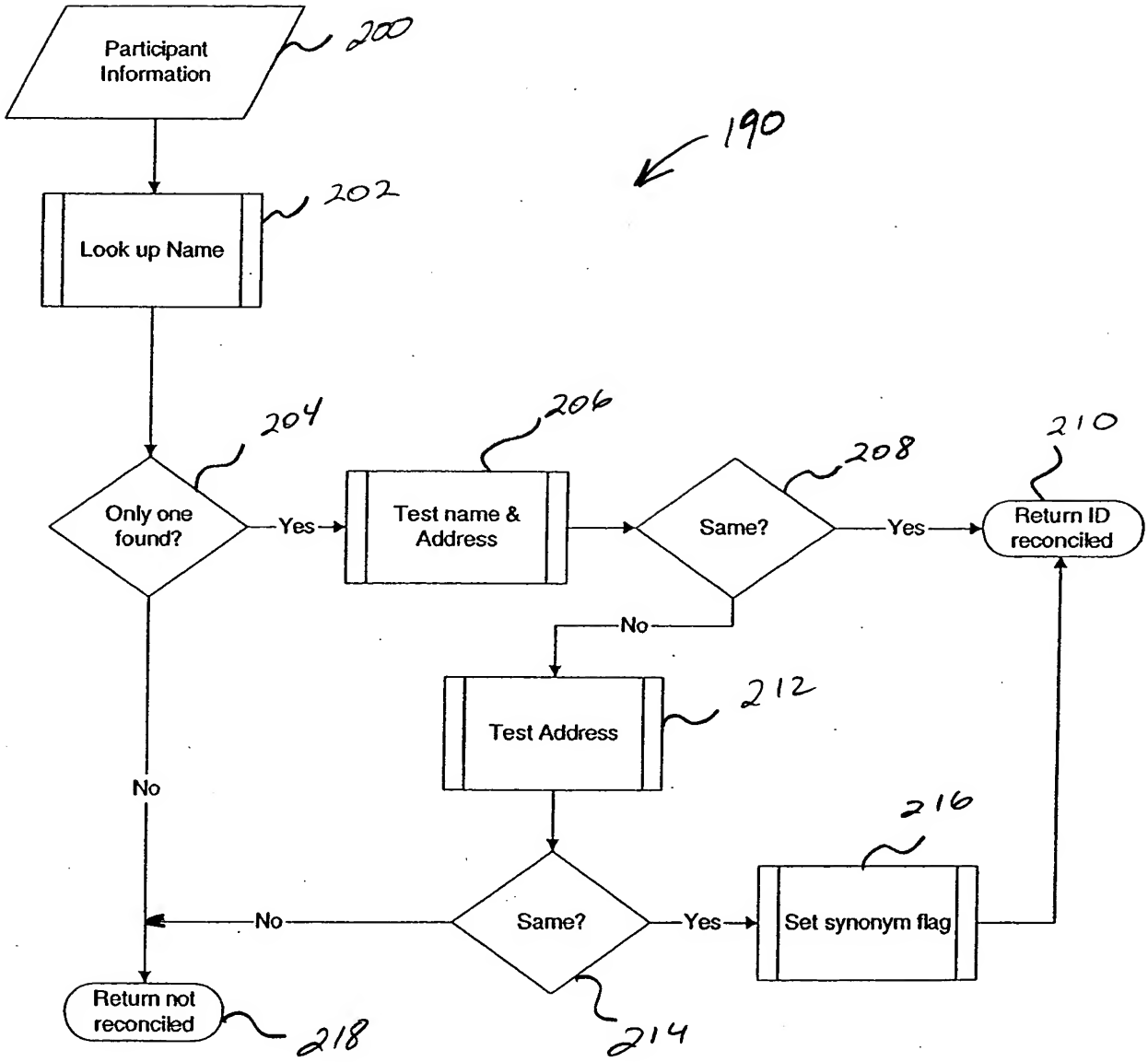

Participant Information
200
190
Look up Name
202
204
Only one found?
Yes
206
Test name & Address
208
Same?
Yes
210
Return ID reconciled
No
212
Test Address
No
216
Same?
Yes
Set synonym flag
No
Return not reconciled
218
214

Fig. 10

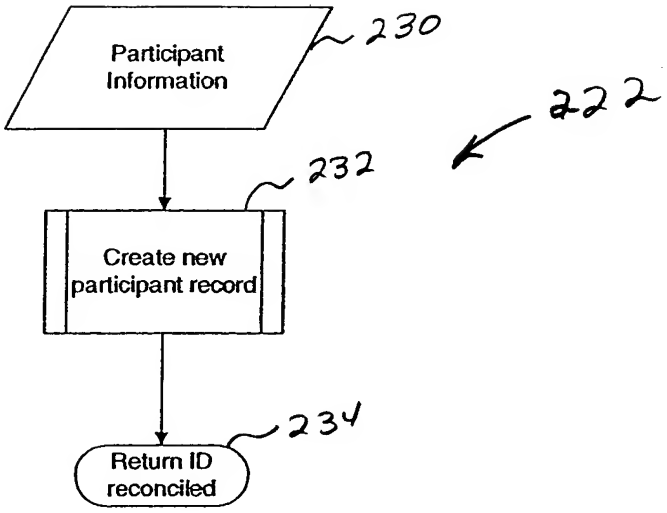

Participant Information
230
222
232
Create new participant record
234
Return ID reconciled

Fig. 11

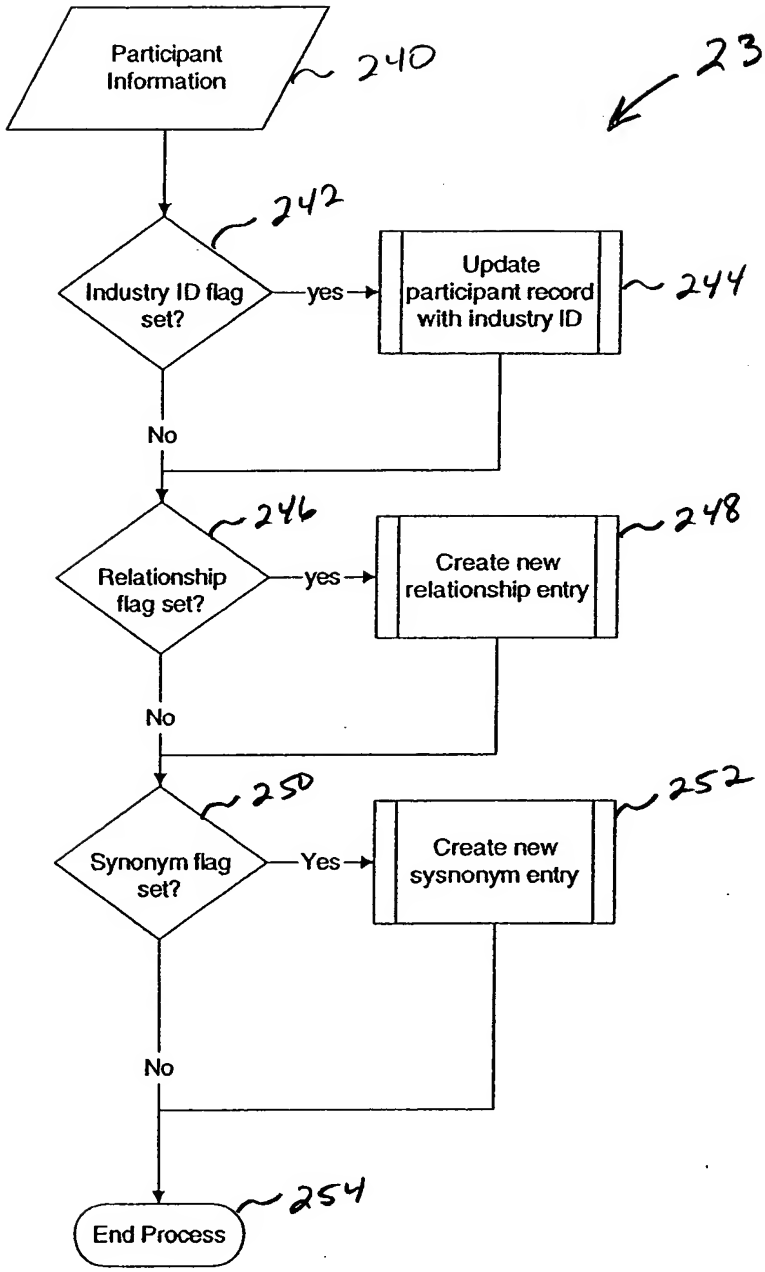

Participant Information
240
238
242
Industry ID flag set?
yes
Update participant record with industry ID
244
No
246
Relationship flag set?
yes
Create new relationship entry
248
No
250
Synonym flag set?
Yes
Create new sysnonym entry
252
No
End Process
254

Fig. 12

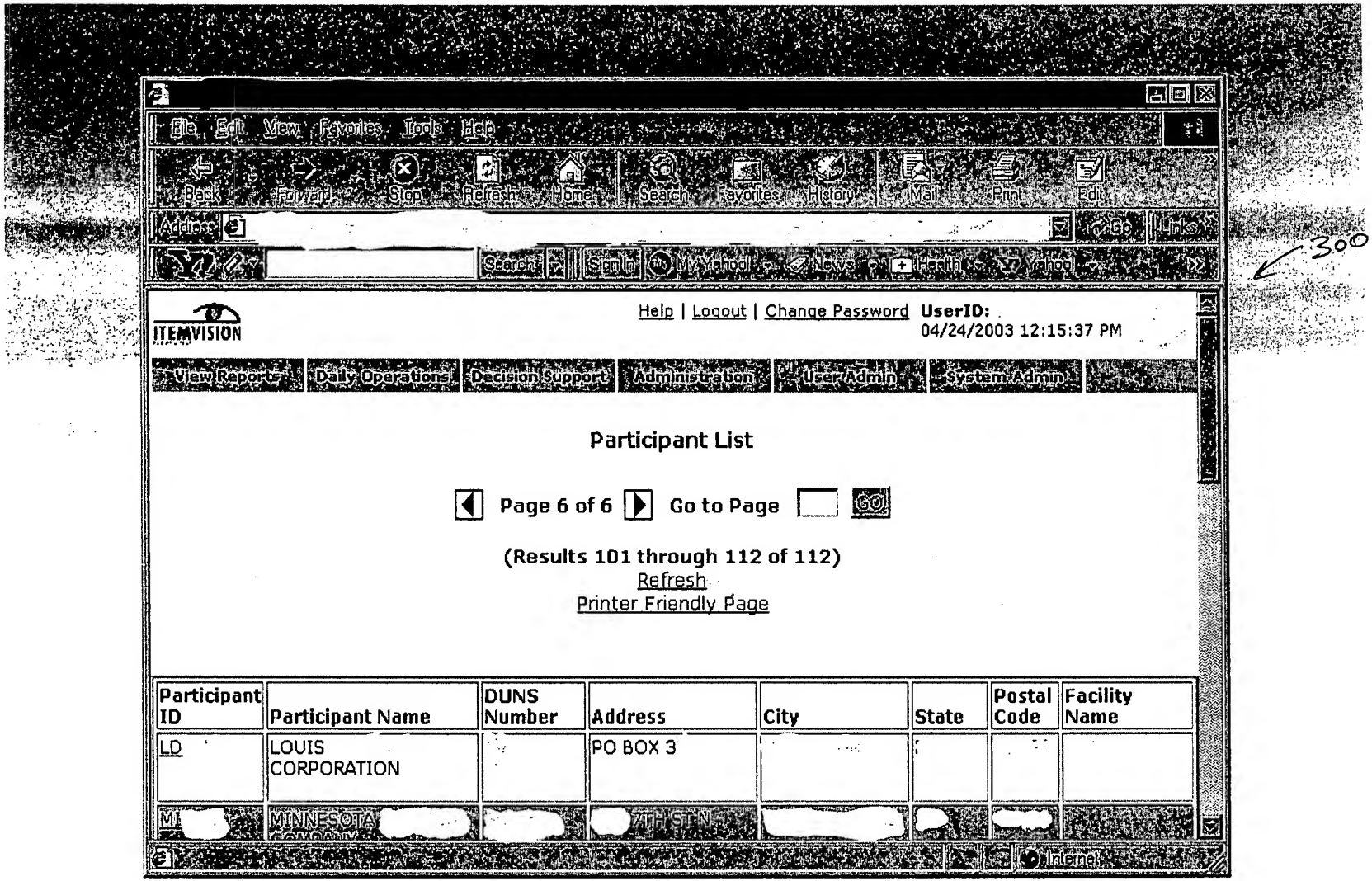
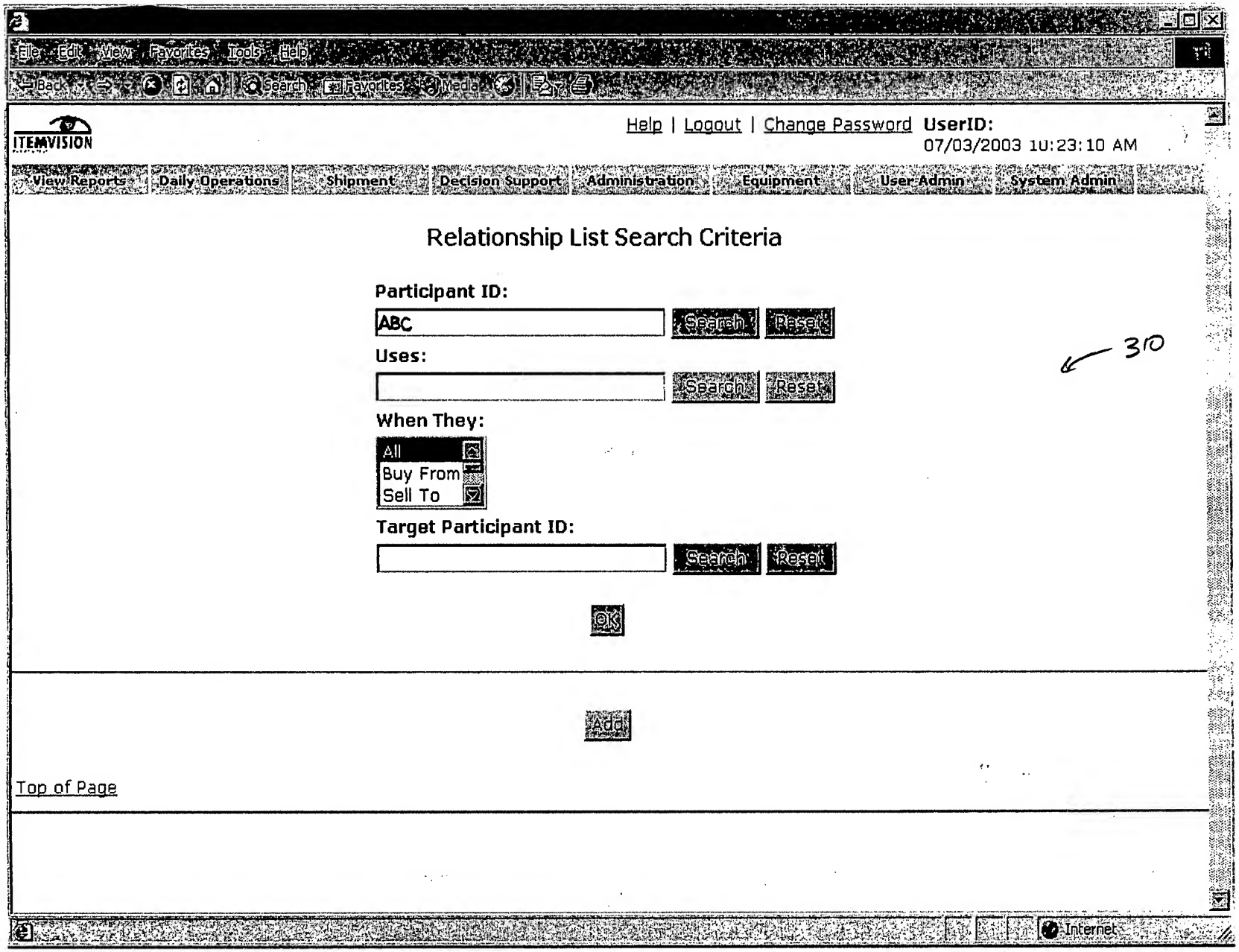

300
ITEMVISION
Help | Logout | Change Password UserID:
04/24/2003 12:15:37 PM
View Reports
Daily Operations
Decision Support
Administration
User Admin
System Admin
Participant List
Page 6 of 6
Go to Page
GO
(Results 101 through 112 of 112)
Refresh
Printer Friendly Page
Participant ID
Participant Name
DUNS Number
Address
City
State
Postal Code
Facility Name
LD
LOUIS CORPORATION
PO BOX 3
MINNESOTA
7TH ST N

FIG. 13


File Edit View Favorites Tools Help
Back Search Favorites Media
ITEMVISION
Help | Logout | Change Password UserID:
07/03/2003 10:23:10 AM
View Reports
Daily Operations
Shipment
Decision Support
Administration
Equipment
User Admin
System Admin
Relationship List Search Criteria
Participant ID:
ABC
Search
Reset
Uses:
Search
Reset
When They:
All
Buy From
Sell To
Target Participant ID:
Search
Reset
OK
Add
Top of Page
Internet

310

FIG. 14

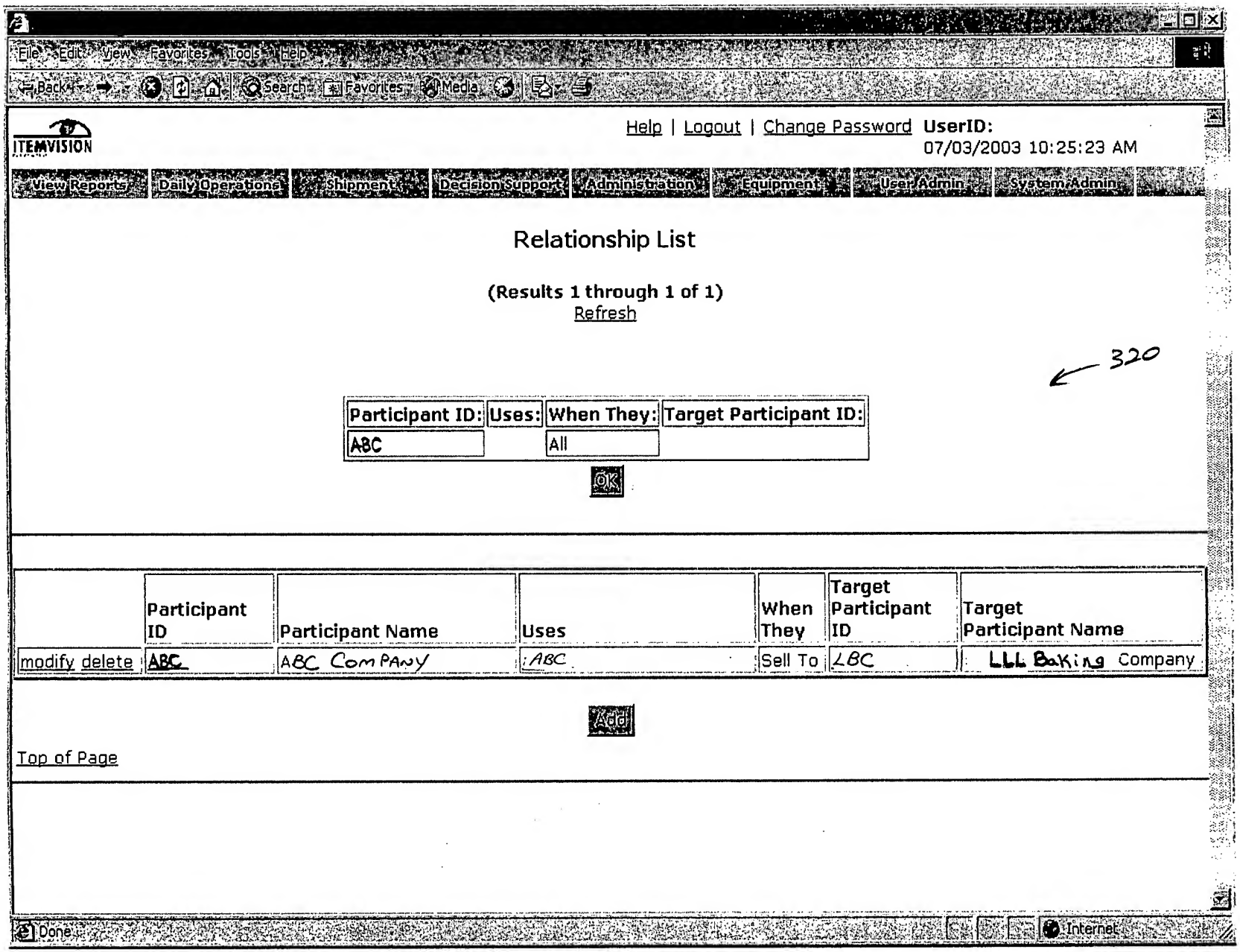

File Edit View Favorites Tools Help
Back Search Favorites Media
ITEMVISION
Help | Logout | Change Password UserID:
07/03/2003 10:25:23 AM
View Reports
Daily Operations
Shipment
Decision Support
Administration
Equipment
User Admin
System Admin
Relationship List
(Results 1 through 1 of 1)
Refresh
320
Participant ID:
Uses:
When They:
Target Participant ID:
ABC
All
OK
Participant ID
Participant Name
Uses
When They
Target Participant ID
Target Participant Name
modify delete
ABC
ABC Company
ABC
Sell To
LBC
LLL Baking Company
Add
Top of Page
Done
Internet

FIG. 15

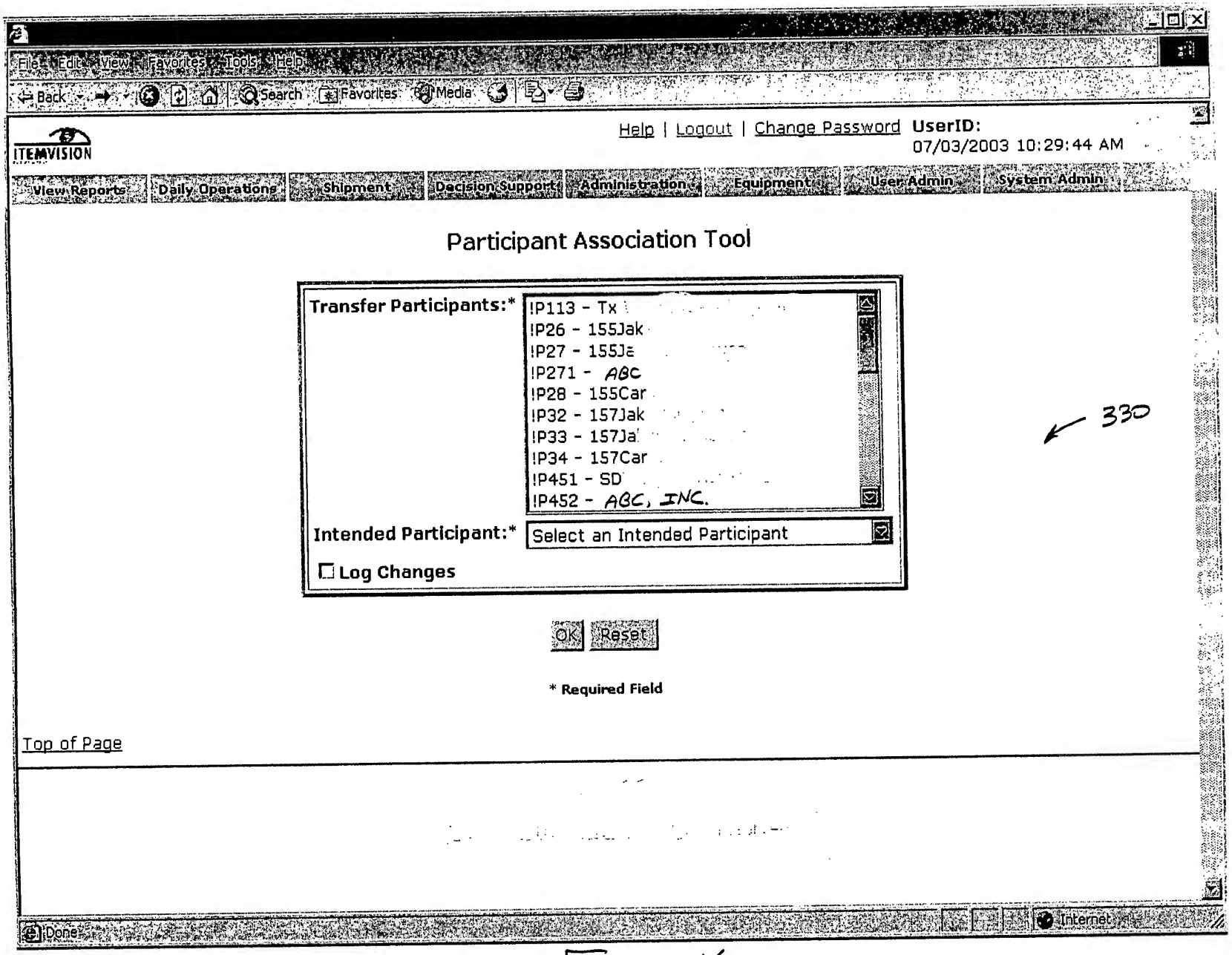

File Edit View Favorites Tools Help
Back Search Favorites Media
ITEMVISION
Help | Logout | Change Password UserID:
07/03/2003 10:29:44 AM
View Reports
Daily Operations
Shipment
Decision Support
Administration
Equipment
User Admin
System Admin
Participant Association Tool
Transfer Participants:*
!P113 - Tx
!P26 - 155Jak
!P27 - 155Ja
!P271 - ABC
!P28 - 155Car
!P32 - 157Jak
!P33 - 157Ja
!P34 - 157Car
!P451 - SD
!P452 - ABC, INC.
330
Intended Participant:*
Select an Intended Participant
Log Changes
OK
Reset
* Required Field
Top of Page
Done
Internet

FIG. 16

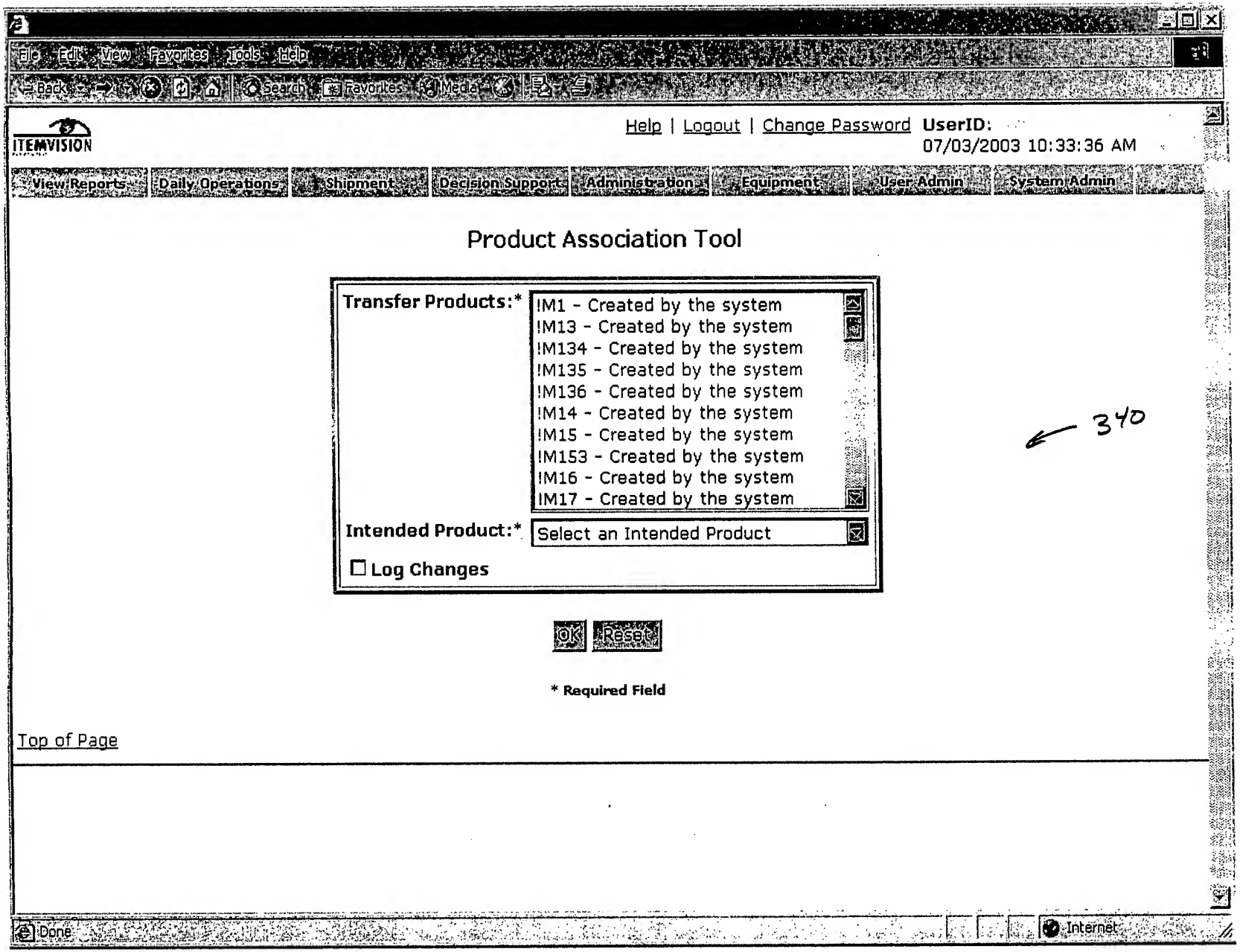

File Edit View Favorites Tools Help
Back Search Favorites Media
ITEMVISION
Help | Logout | Change Password UserID:
07/03/2003 10:33:36 AM
View Reports
Daily Operations
Shipment
Decision Support
Administration
Equipment
User Admin
System Admin
Product Association Tool
Transfer Products:*
!M1 - Created by the system
!M13 - Created by the system
!M134 - Created by the system
!M135 - Created by the system
!M136 - Created by the system
!M14 - Created by the system
!M15 - Created by the system
!M153 - Created by the system
!M16 - Created by the system
!M17 - Created by the system
340
Intended Product:*
Select an Intended Product
Log Changes
OK
Reset
* Required Field
Top of Page
Done
Internet

FIG. 17

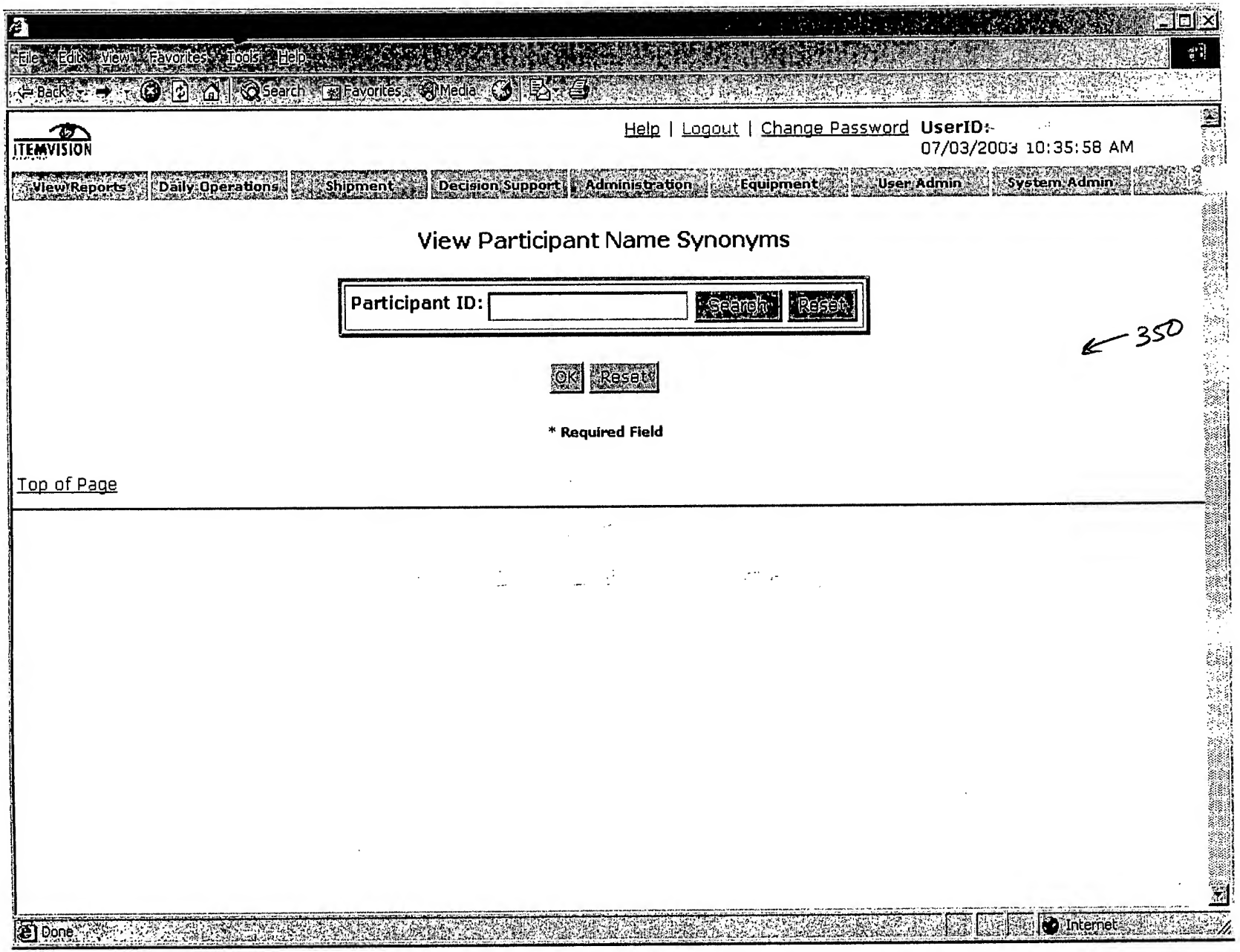

File Edit View Favorites Tools Help
Back Search Favorites Media
ITEMVISION
Help | Logout | Change Password UserID:
07/03/2003 10:35:58 AM
View Reports
Daily Operations
Shipment
Decision Support
Administration
Equipment
User Admin
System Admin
View Participant Name Synonyms
Participant ID:
Search
Reset
350
OK
Reset
* Required Field
Top of Page
Done
Internet

FIG 18

1/139

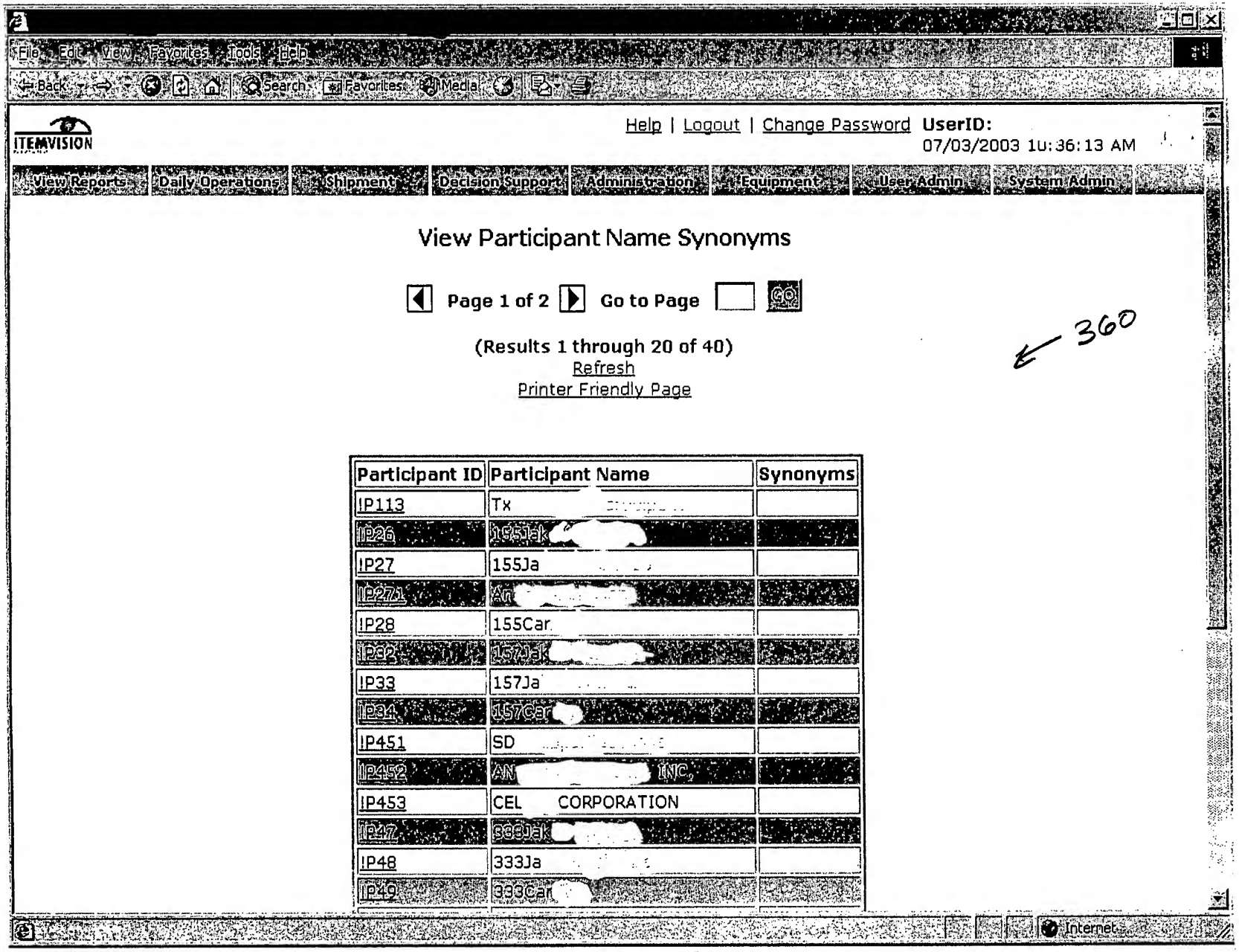
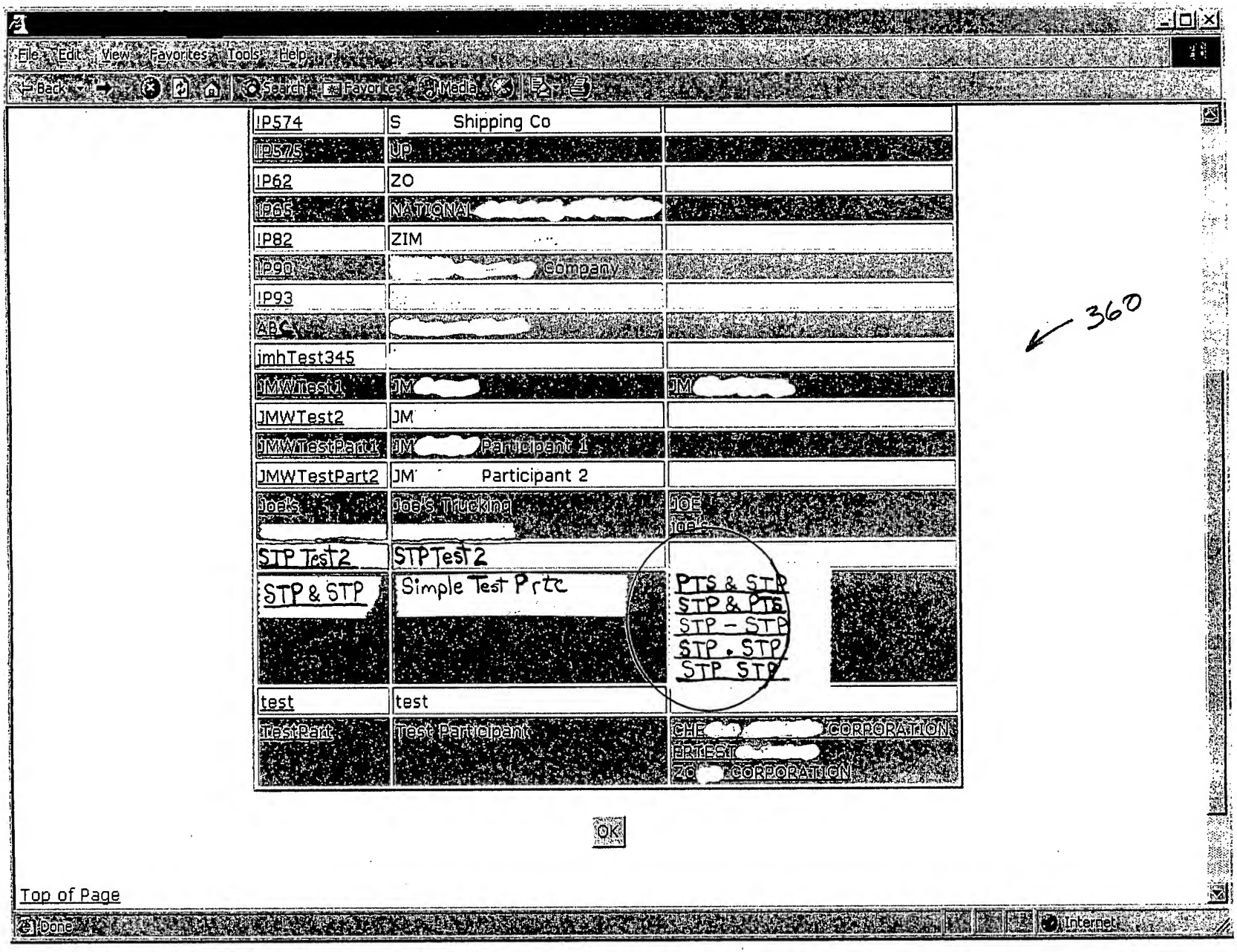

File Edit View Favorites Tools Help
Back Search Favorites Media
ITEMVISION
Help | Logout | Change Password UserID:
07/03/2003 10:36:13 AM
View Reports Daily Operations Shipment Decision Support Administration Equipment User Admin System Admin
View Participant Name Synonyms
Page 1 of 2 Go to Page GO
(Results 1 through 20 of 40)
Refresh
Printer Friendly Page
360
Participant ID | Participant Name | Synonyms
IP113 | Tx
IP26 | 155Ja
IP27 | 155Ja
IP271 | An
IP28 | 155Car
IP32 | 157Ja
IP33 | 157Ja
IP34 | 157Car
IP451 | SD
IP452 | AN INC.
IP453 | CEL CORPORATION
IP47 | 333Ja
IP48 | 333Ja
IP49 | 333Car
Internet

FIG 19A



360

FIG. 19B

1619

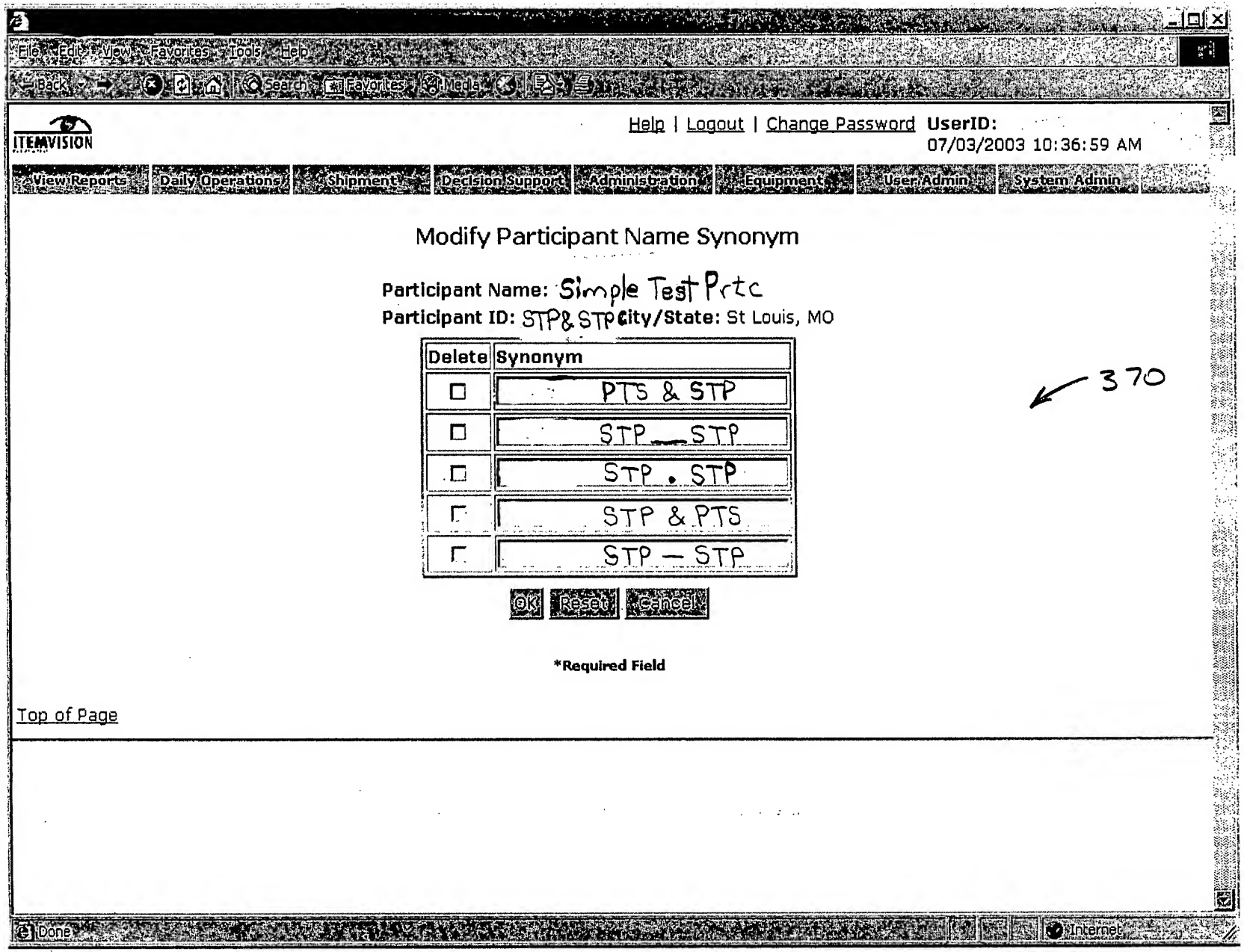

File Edit View Favorites Tools Help
Back Search Favorites Media
ITEMVISION
Help | Logout | Change Password UserID:
07/03/2003 10:36:59 AM
View Reports
Daily Operations
Shipment
Decision Support
Administration
Equipment
User Admin
System Admin
Modify Participant Name Synonym
Participant Name: Simple Test Prtc
Participant ID: STP& STP City/State: St Louis, MO
Delete
Synonym
PTS & STP
STP _ STP
STP . STP
STP & PTS
STP – STP
370
OK
Reset
Cancel
*Required Field
Top of Page
Done
Internet

FIG 20

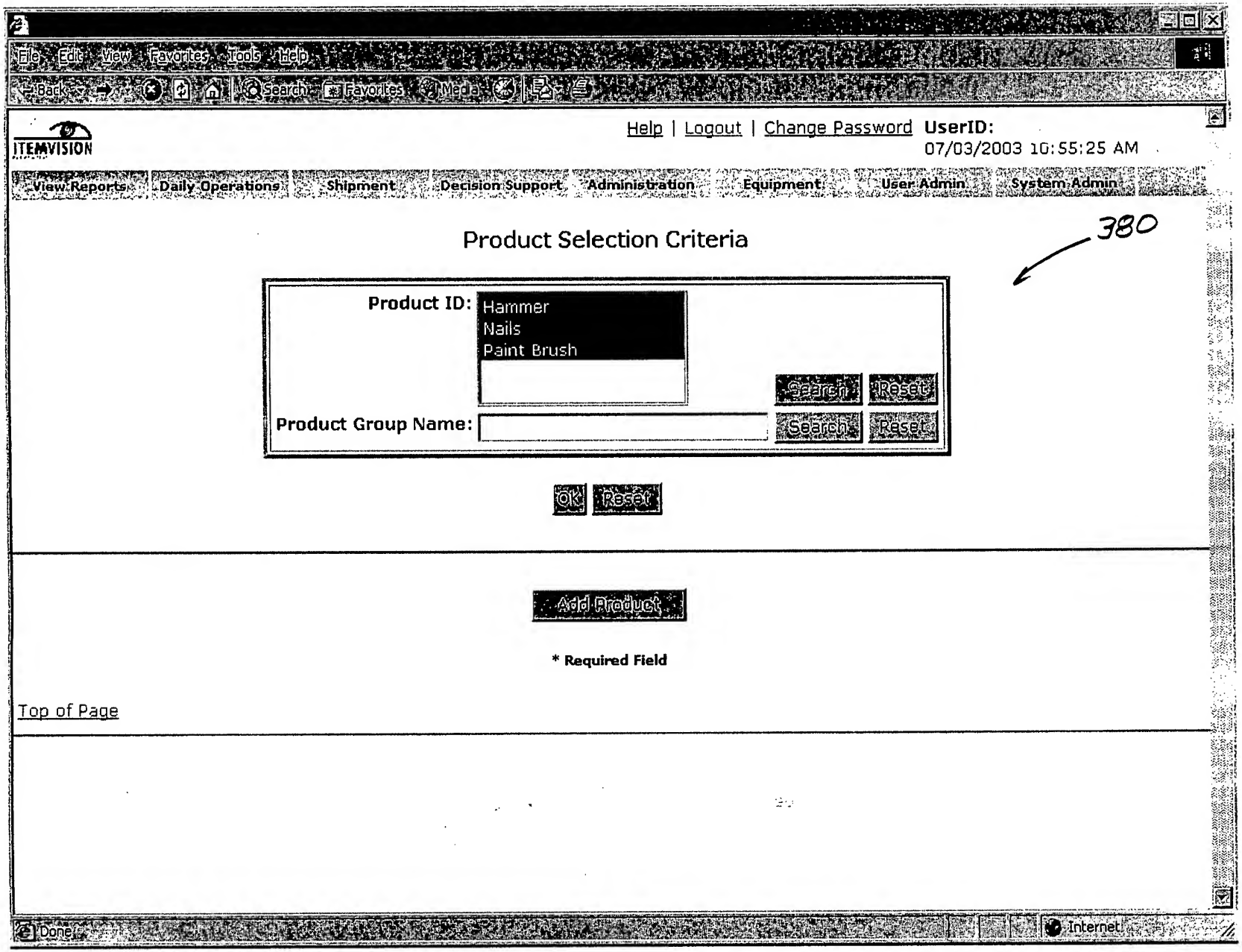

File Edit View Favorites Tools Help
Back Search Favorites Media
ITEMVISION
Help | Logout | Change Password UserID:
07/03/2003 10:55:25 AM
View Reports
Daily Operations
Shipment
Decision Support
Administration
Equipment
User Admin
System Admin
Product Selection Criteria
380
Product ID:
Hammer
Nails
Paint Brush
Search
Reset
Product Group Name:
Search
Reset
OK
Reset
Add Product
* Required Field
Top of Page
Done
Internet

FIG. 21

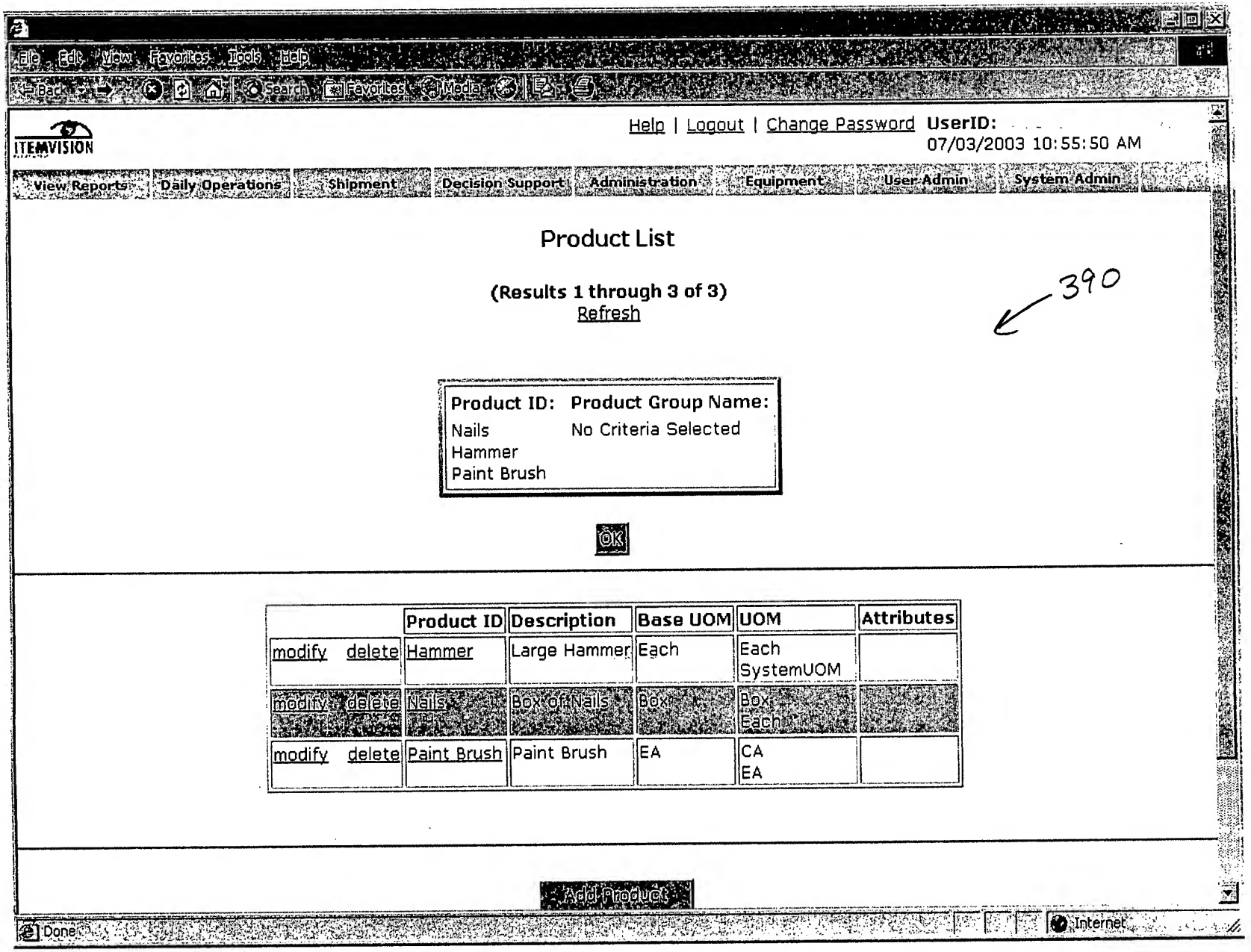
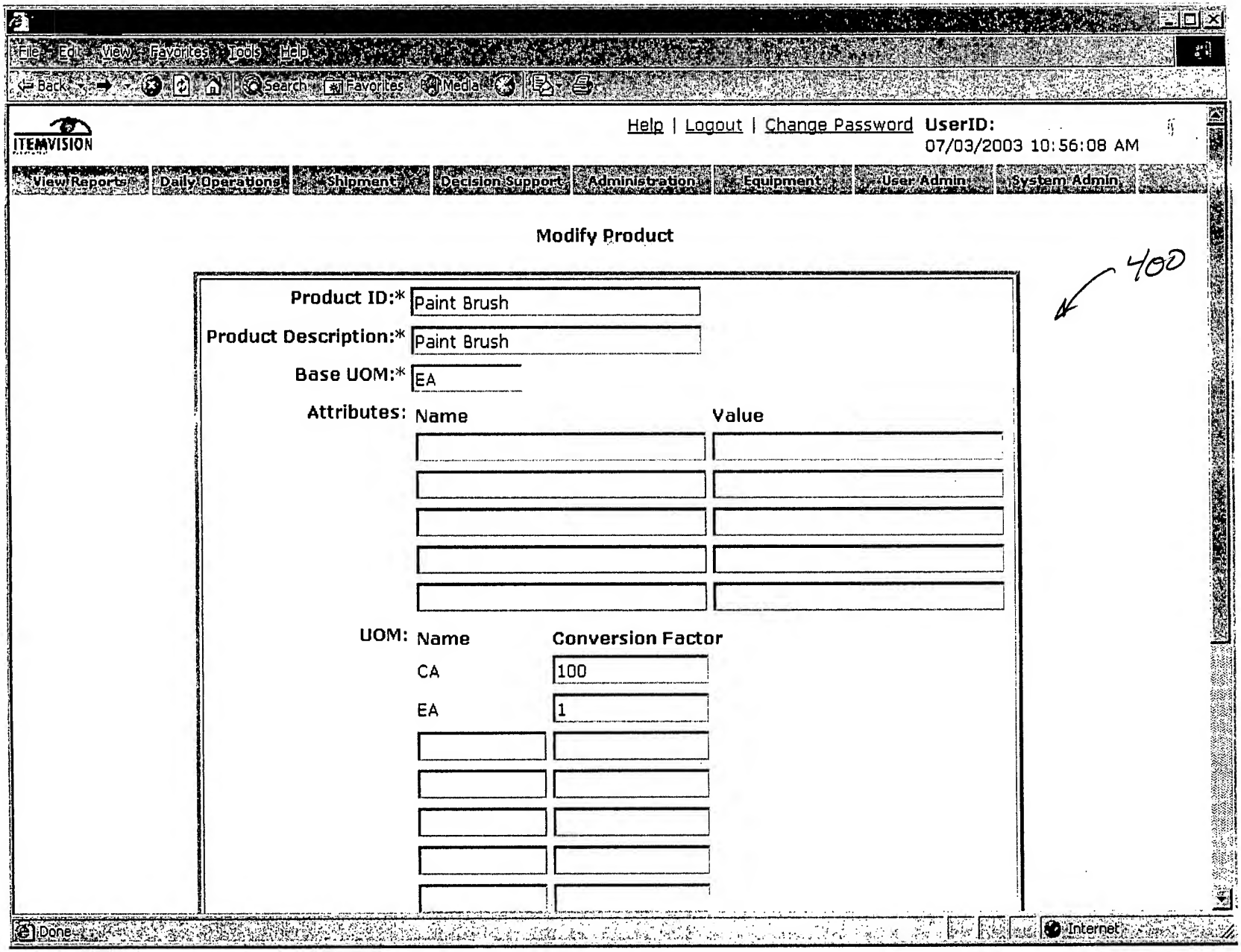
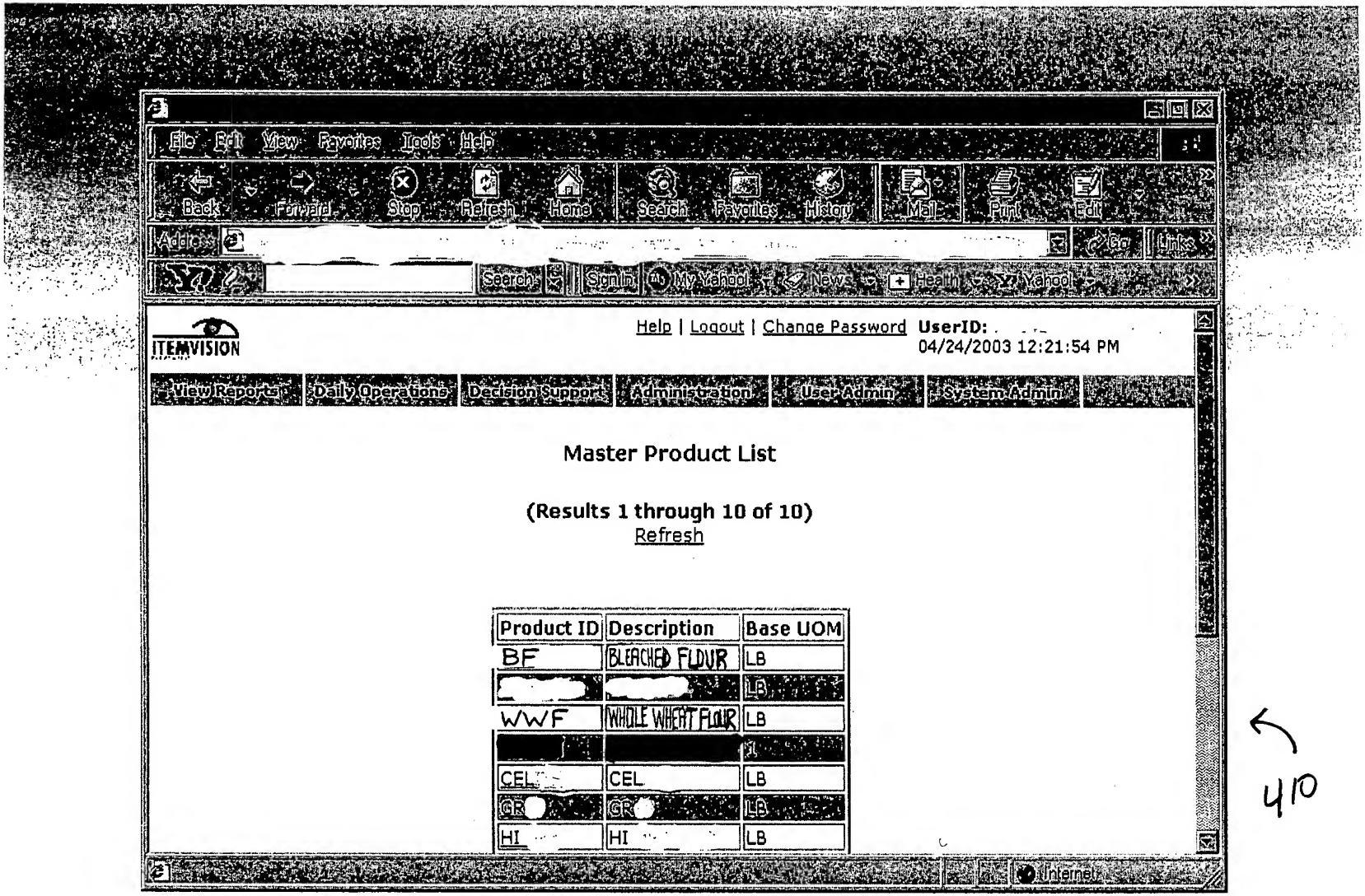

File Edit View Favorites Tools Help
Back Search Favorites Media
ITEMVISION
Help | Logout | Change Password UserID:
07/03/2003 10:55:50 AM
View Reports
Daily Operations
Shipment
Decision Support
Administration
Equipment
User Admin
System Admin
Product List
(Results 1 through 3 of 3)
Refresh
390
Product ID:
Nails
Hammer
Paint Brush
Product Group Name:
No Criteria Selected
OK
Product ID
Description
Base UOM
UOM
Attributes
modify delete
Hammer
Large Hammer
Each
Each
SystemUOM
modify delete
Nails
Box Of Nails
Box
Box
Each
modify delete
Paint Brush
Paint Brush
EA
CA
EA
Add Product
Done
Internet

FIG. 22

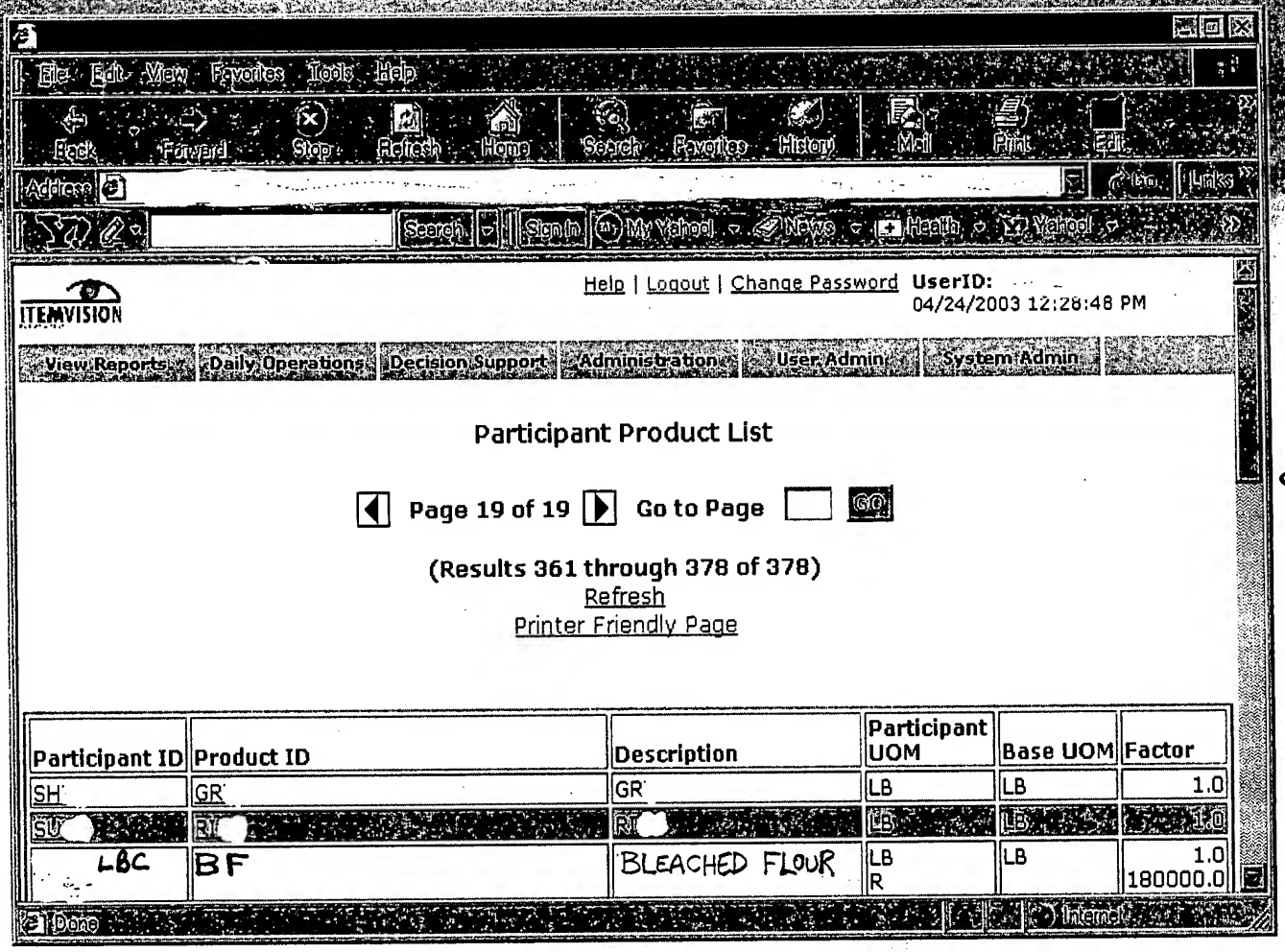

File Edit View Favorites Tools Help
Back Search Favorites Media
ITEMVISION
Help | Logout | Change Password UserID:
07/03/2003 10:56:08 AM
View Reports
Daily Operations
Shipment
Decision Support
Administration
Equipment
User Admin
System Admin
Modify Product
400
Product ID:* Paint Brush
Product Description:* Paint Brush
Base UOM:* EA
Attributes: Name Value
UOM: Name Conversion Factor
CA 100
EA 1
Done
Internet

FIG, 23


File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit
Address
Search Sign In My Yahoo! News Health Yahoo!
ITEMVISION
Help | Logout | Change Password UserID:
04/24/2003 12:21:54 PM
View Reports Daily Operations Decision Support Administration User Admin System Admin
Master Product List
(Results 1 through 10 of 10)
Refresh
Product ID Description Base UOM
BF BLEACHED FLOUR LB
WWF WHOLE WHEAT FLOUR LB
CEL CEL LB
HI HI LB
Internet

410

FIG. 24


File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit
Address
Search Sign In My Yahoo! News Health Yahoo!
ITEMVISION
Help | Logout | Change Password UserID:
04/24/2003 12:28:48 PM
View Reports Daily Operations Decision Support Administration User Admin System Admin
Participant Product List
Page 19 of 19 Go to Page GO
(Results 361 through 378 of 378)
Refresh
Printer Friendly Page
Participant ID | Product ID | Description | Participant UOM | Base UOM | Factor
SH | GR | GR | LB | LB | 1.0
SU | RI | RI | LB | LB | 1.0
LBC | BF | BLEACHED FLOUR | LB R | LB | 1.0 180000.0
Done
Internet

420

FIG. 25

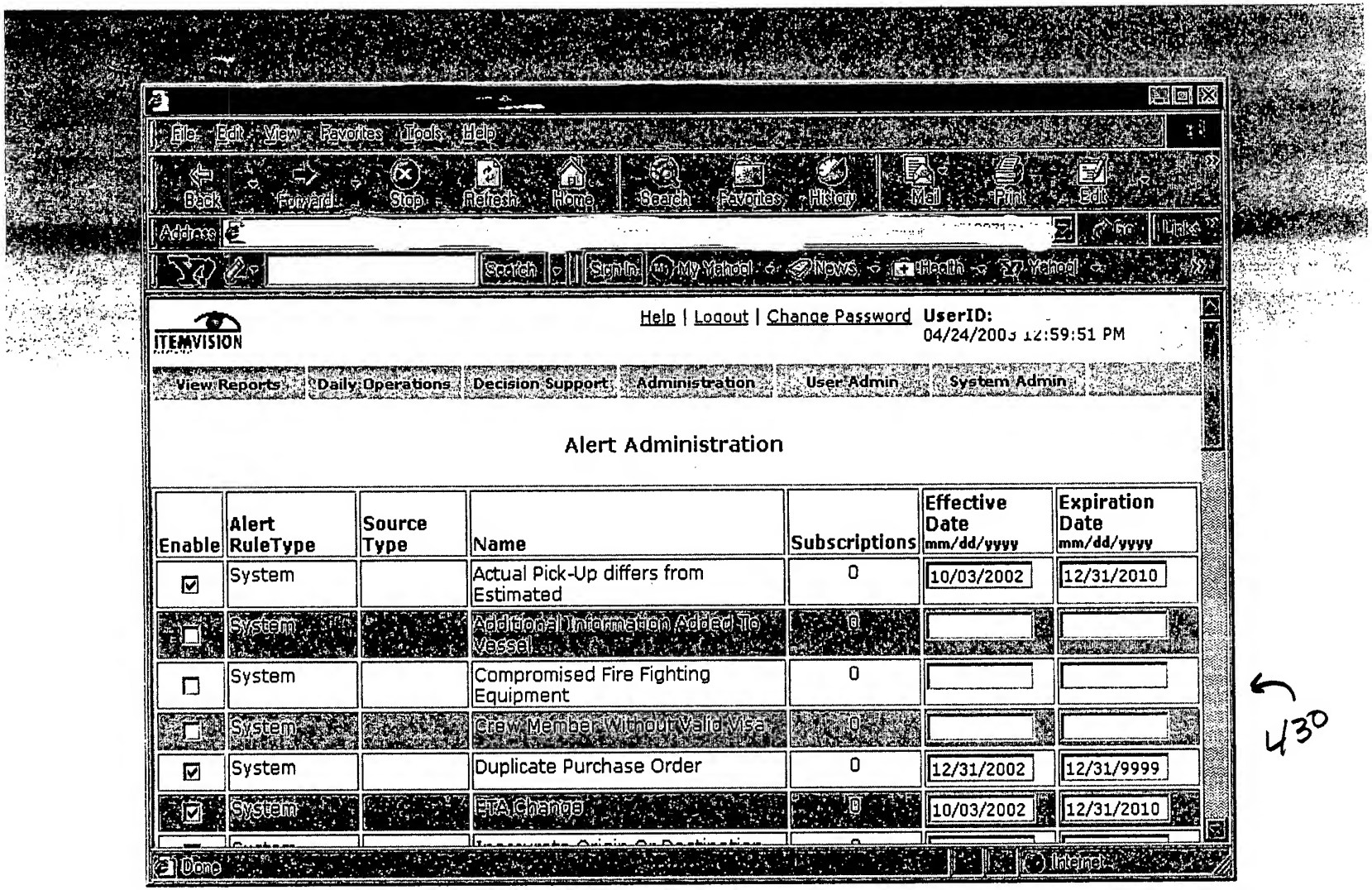
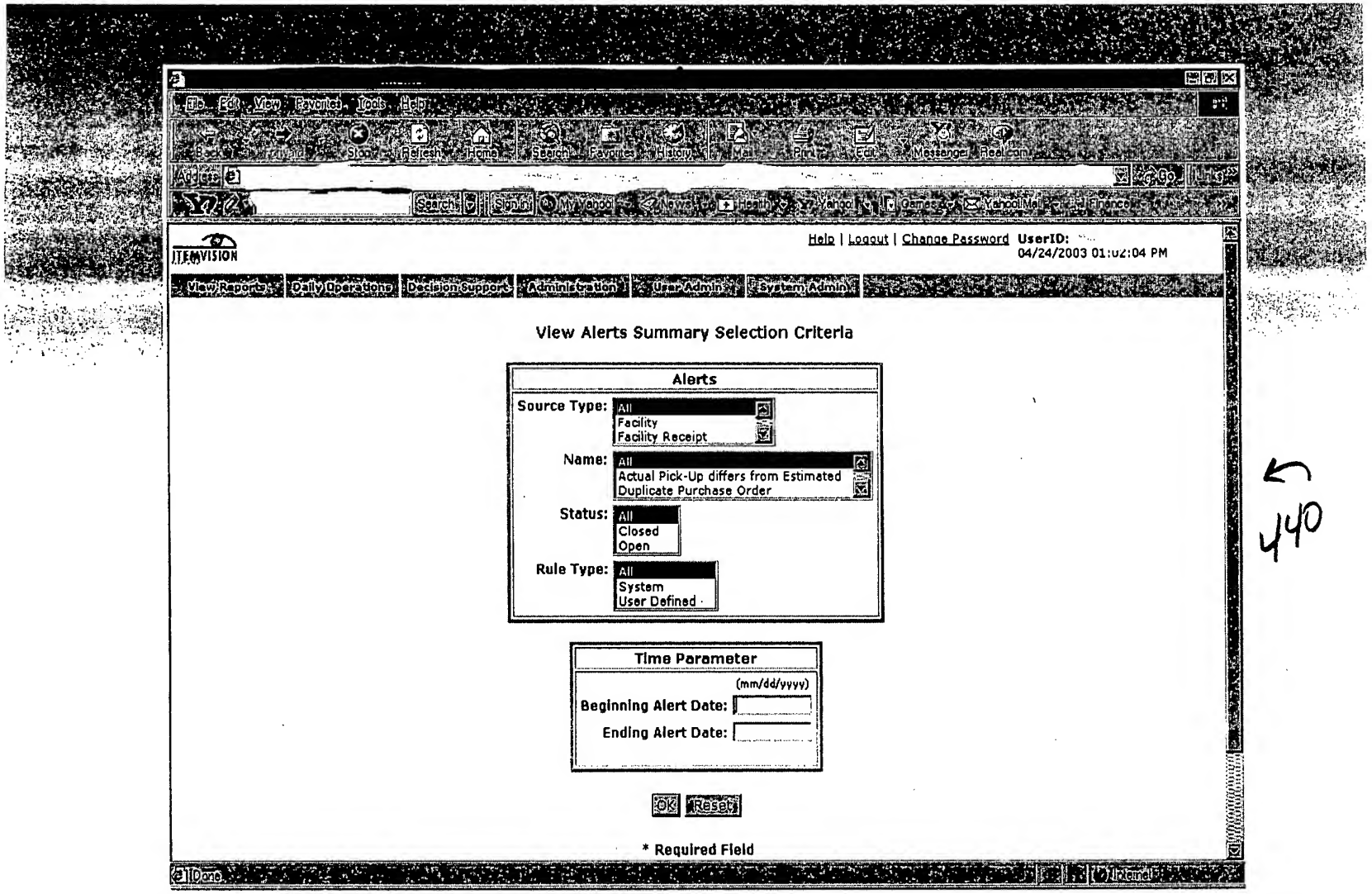
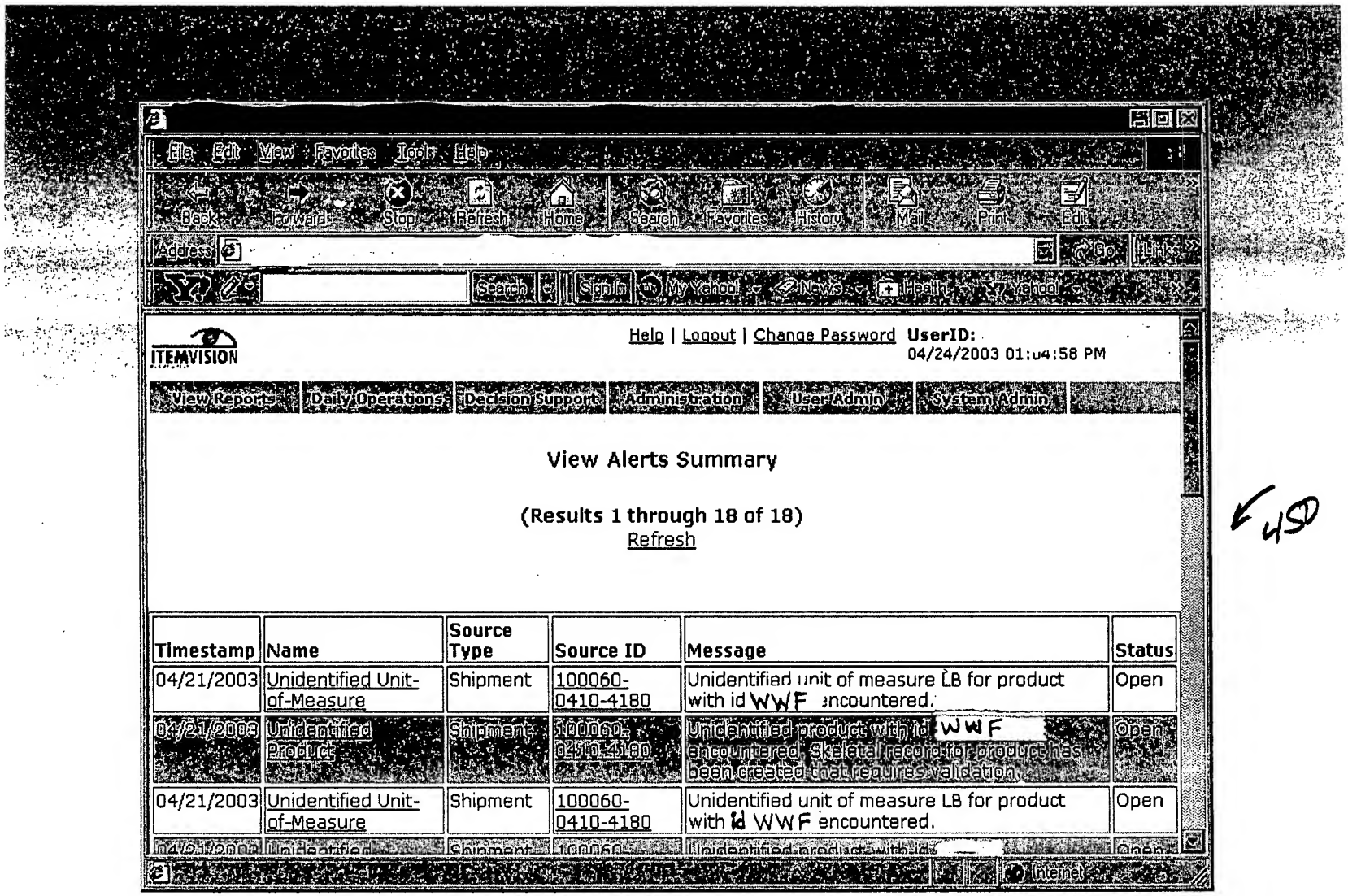

File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit
Address
Search Sign In My Yahoo! News Health Yahoo!
ITEMVISION
Help | Logout | Change Password UserID:
04/24/2005 12:59:51 PM
View Reports Daily Operations Decision Support Administration User Admin System Admin
Alert Administration
Enable
Alert RuleType
Source Type
Name
Subscriptions
Effective Date mm/dd/yyyy
Expiration Date mm/dd/yyyy
System Actual Pick-Up differs from Estimated 0 10/03/2002 12/31/2010
System Additional Information Added To Vessel 0
System Compromised Fire Fighting Equipment 0
System Crew Member Without Valid Visa 0
System Duplicate Purchase Order 0 12/31/2002 12/31/9999
System ETA Change 0 10/03/2002 12/31/2010
Done
Internet
430

FIG. 26


Help | Logout | Change Password UserID:
04/24/2003 01:02:04 PM
View Reports
Daily Operations
Decision Support
Administration
User Admin
System Admin
View Alerts Summary Selection Criteria
Alerts
Source Type:
All
Facility
Facility Receipt
Name:
All
Actual Pick-Up differs from Estimated
Duplicate Purchase Order
Status:
All
Closed
Open
Rule Type:
All
System
User Defined
Time Parameter
(mm/dd/yyyy)
Beginning Alert Date:
Ending Alert Date:
OK
Reset
* Required Field

440

FIG. 27



450

FIG. 28

28134

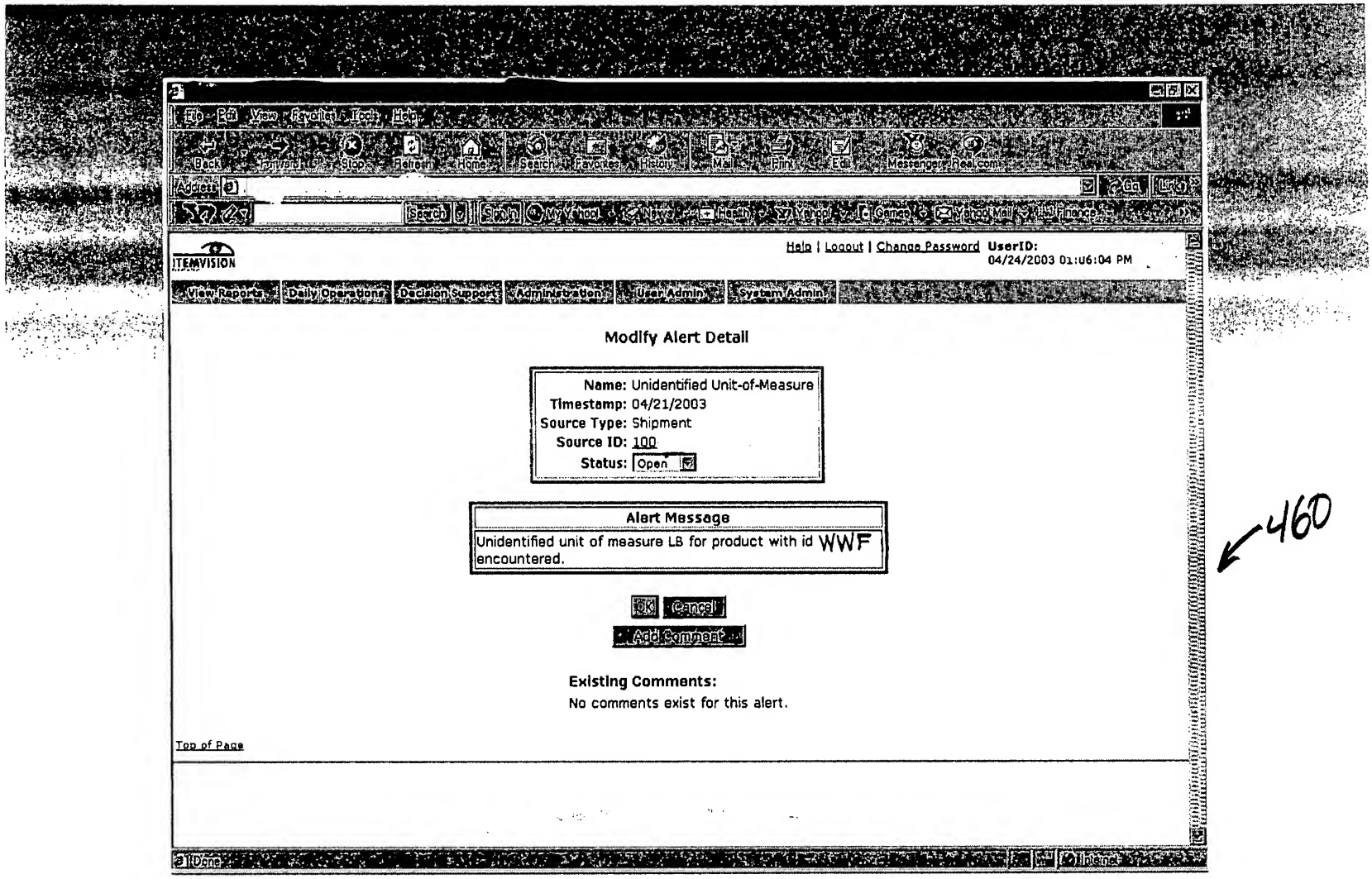

ITEMVISION
Help | Logout | Change Password UserID:
04/24/2003 01:06:04 PM
View Reports
Daily Operations
Decision Support
Administration
User Admin
System Admin
Modify Alert Detail
Name: Unidentified Unit-of-Measure
Timestamp: 04/21/2003
Source Type: Shipment
Source ID: 100
Status: Open
Alert Message
Unidentified unit of measure LB for product with id WWF encountered.
OK
Cancel
Add Comment
Existing Comments:
No comments exist for this alert.
Top of Page
Done
460

FIG. 29

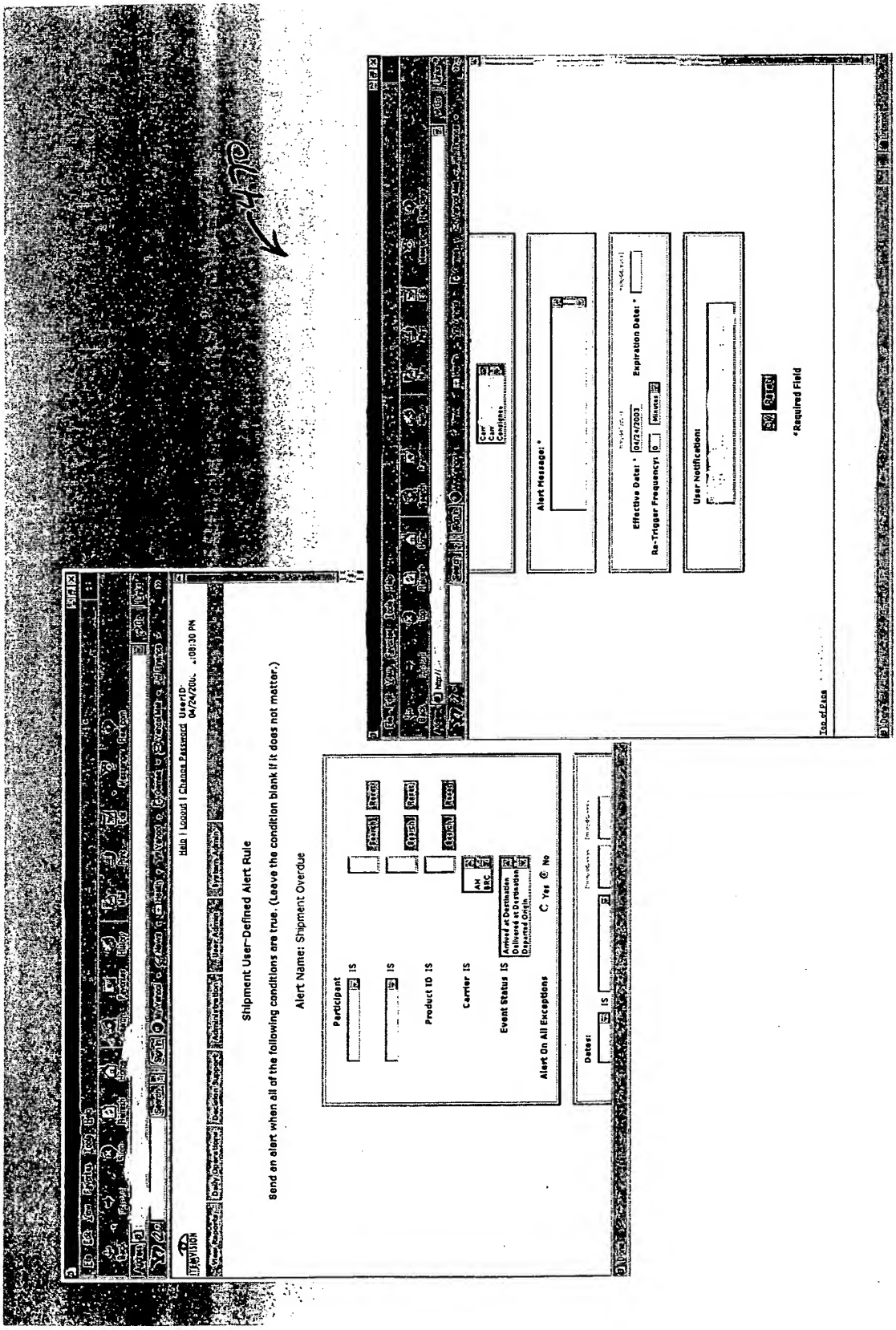
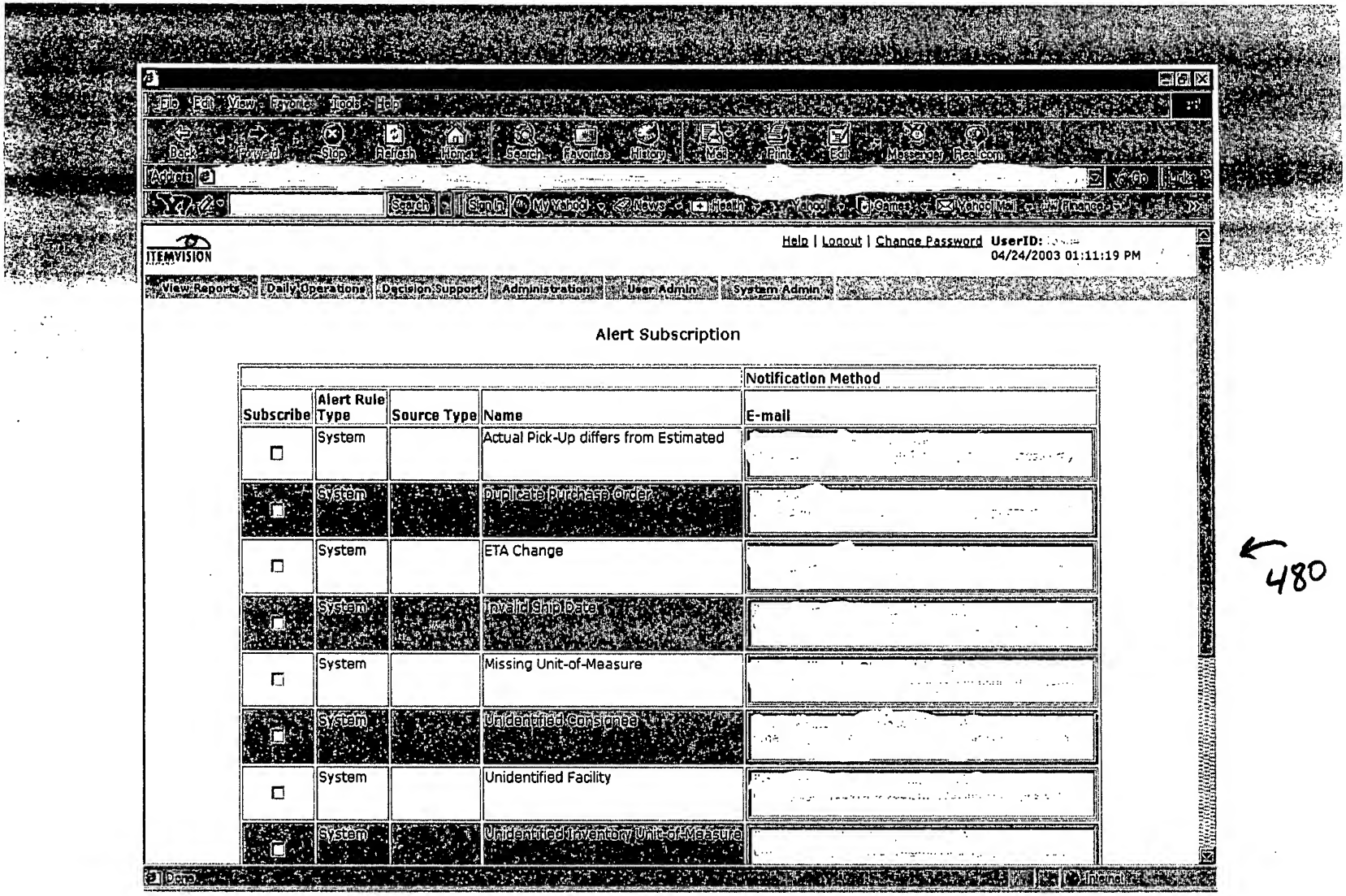
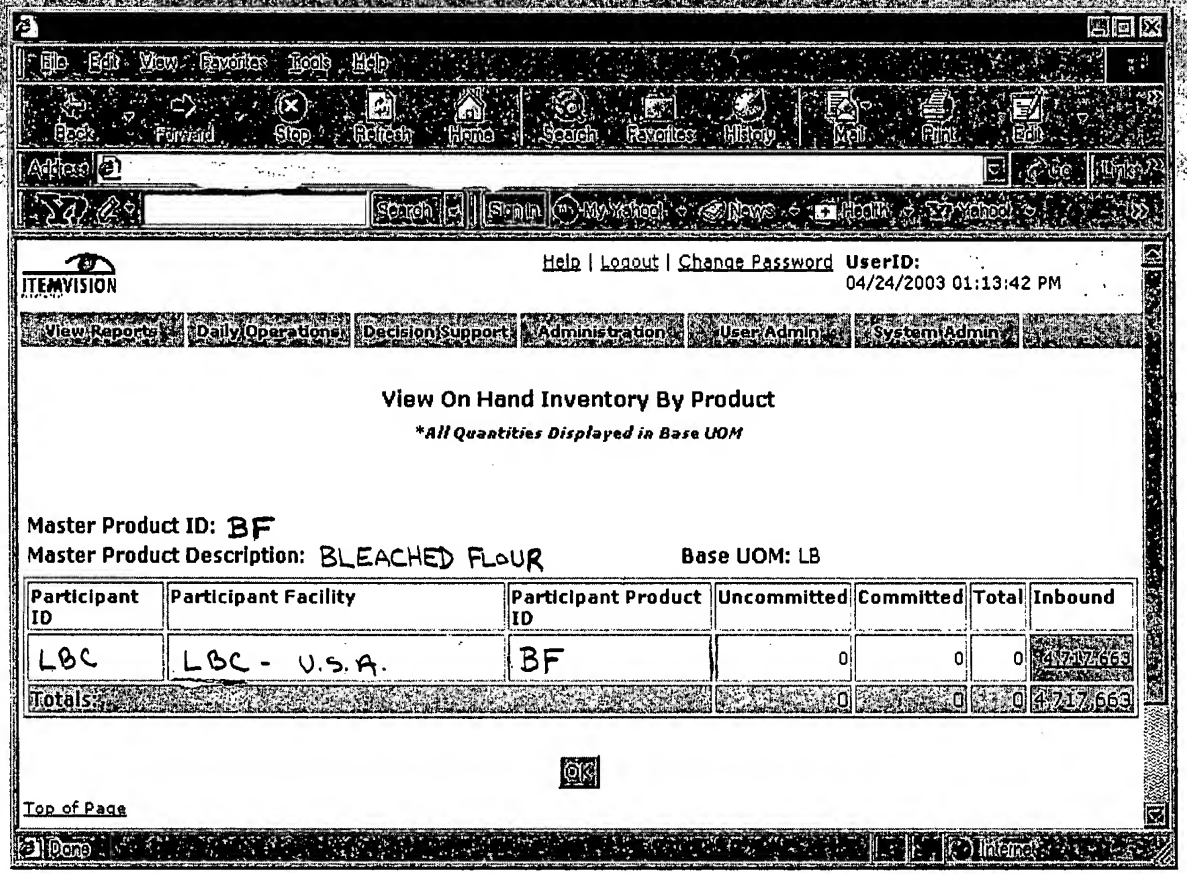

Shipment User-Defined Alert Rule
Send an alert when all of the following conditions are true. (Leave the condition blank if it does not matter.)
Alert Name: Shipment Overdue
Participant
Product ID IS
Carrier IS
Event Status IS
Alert On All Exceptions
Dates!
Alert Message: *
Effective Date: *
Expiration Date: *
Re-Trigger Frequency:
User Notification:
*Required Field

FIG. 30


Help | Logout | Change Password UserID:
04/24/2003 01:11:19 PM
View Reports
Daily Operations
Decision Support
Administration
User Admin
System Admin
Alert Subscription
Notification Method
Subscribe
Alert Rule Type
Source Type
Name
E-mail
System
Actual Pick-Up differs from Estimated
System
Duplicate Purchase Order
System
ETA Change
System
Invalid Ship Date
System
Missing Unit-of-Measure
System
Unidentified Consignee
System
Unidentified Facility
System
Unidentified Inventory Unit-of-Measure

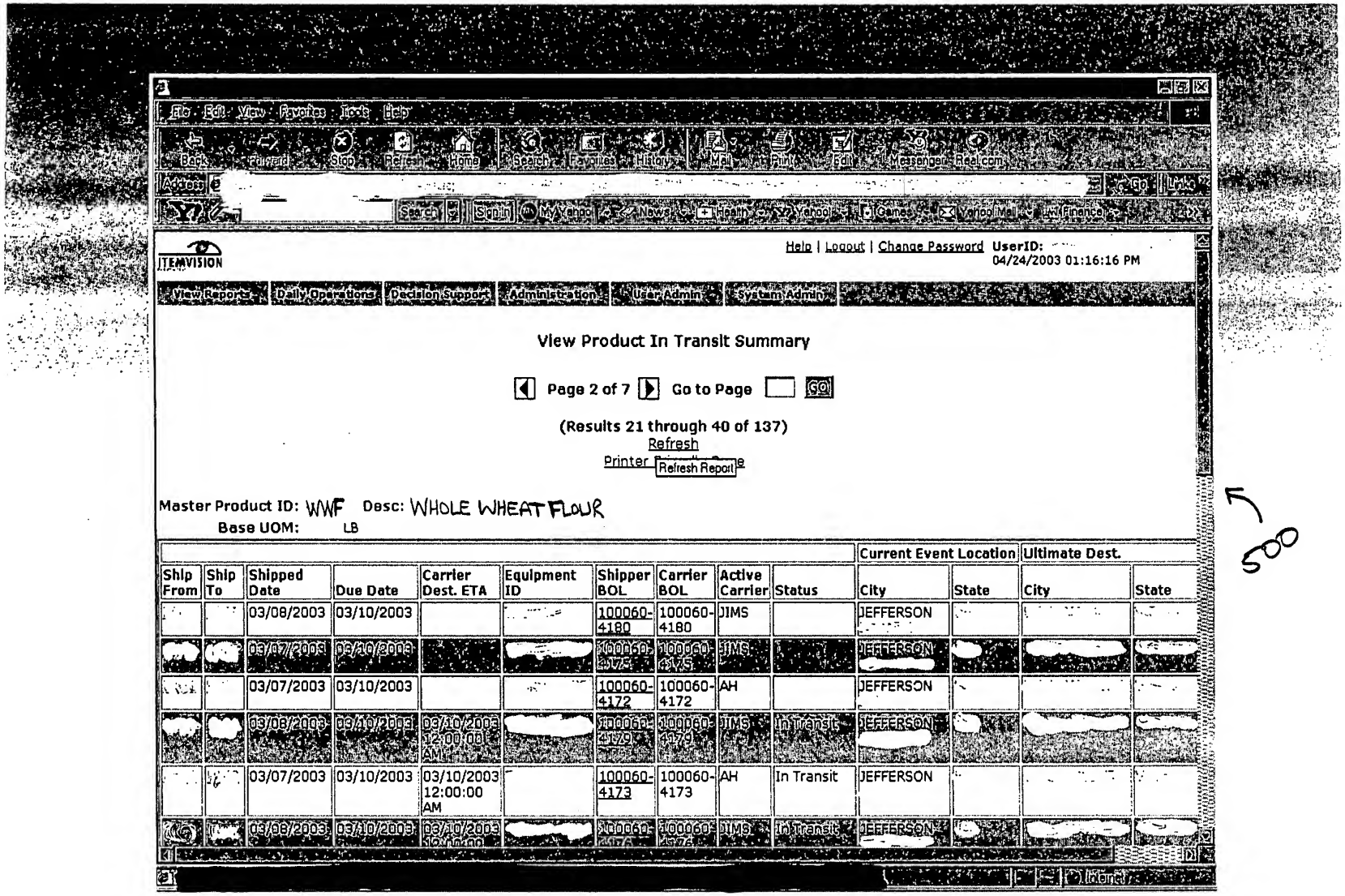
480

FIG. 31


File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit
Address
Search Sign In My Yahoo! News Health Yahoo!
ITEMVISION
Help | Logout | Change Password UserID:
04/24/2003 01:13:42 PM
View Reports Daily Operations Decision Support Administration User Admin System Admin
View On Hand Inventory By Product
*All Quantities Displayed in Base UOM
Master Product ID: BF
Master Product Description: BLEACHED FLOUR
Base UOM: LB
Participant ID
Participant Facility
Participant Product ID
Uncommitted
Committed
Total
Inbound
LBC
LBC - U.S.A.
BF
0
0
0
4717663
Totals:
0
0
0
4717663
OK
Top of Page
Done
Internet

490

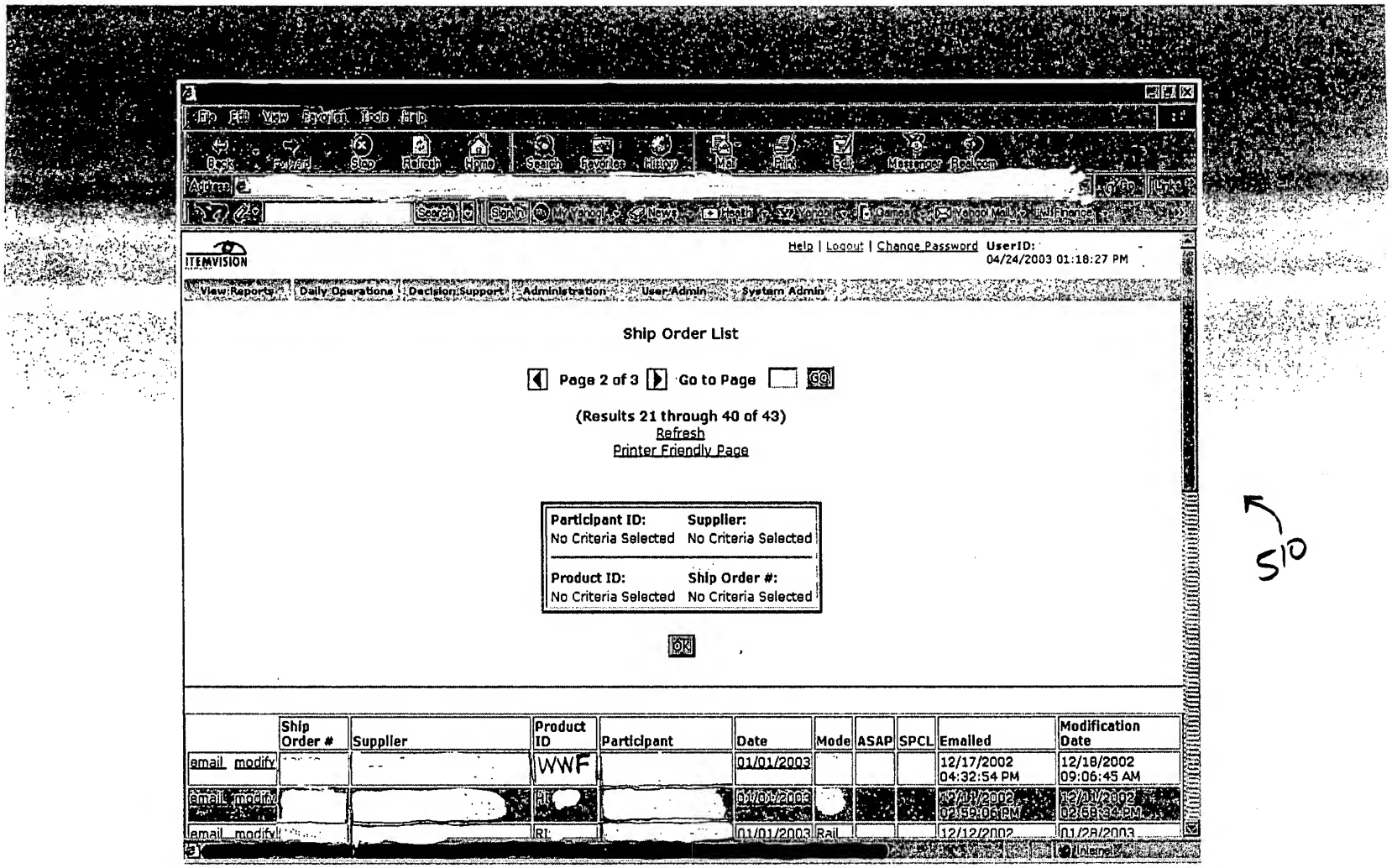
FIG. 32



500

FIG. 33

3 of 34



510

FIG. 34

34/54

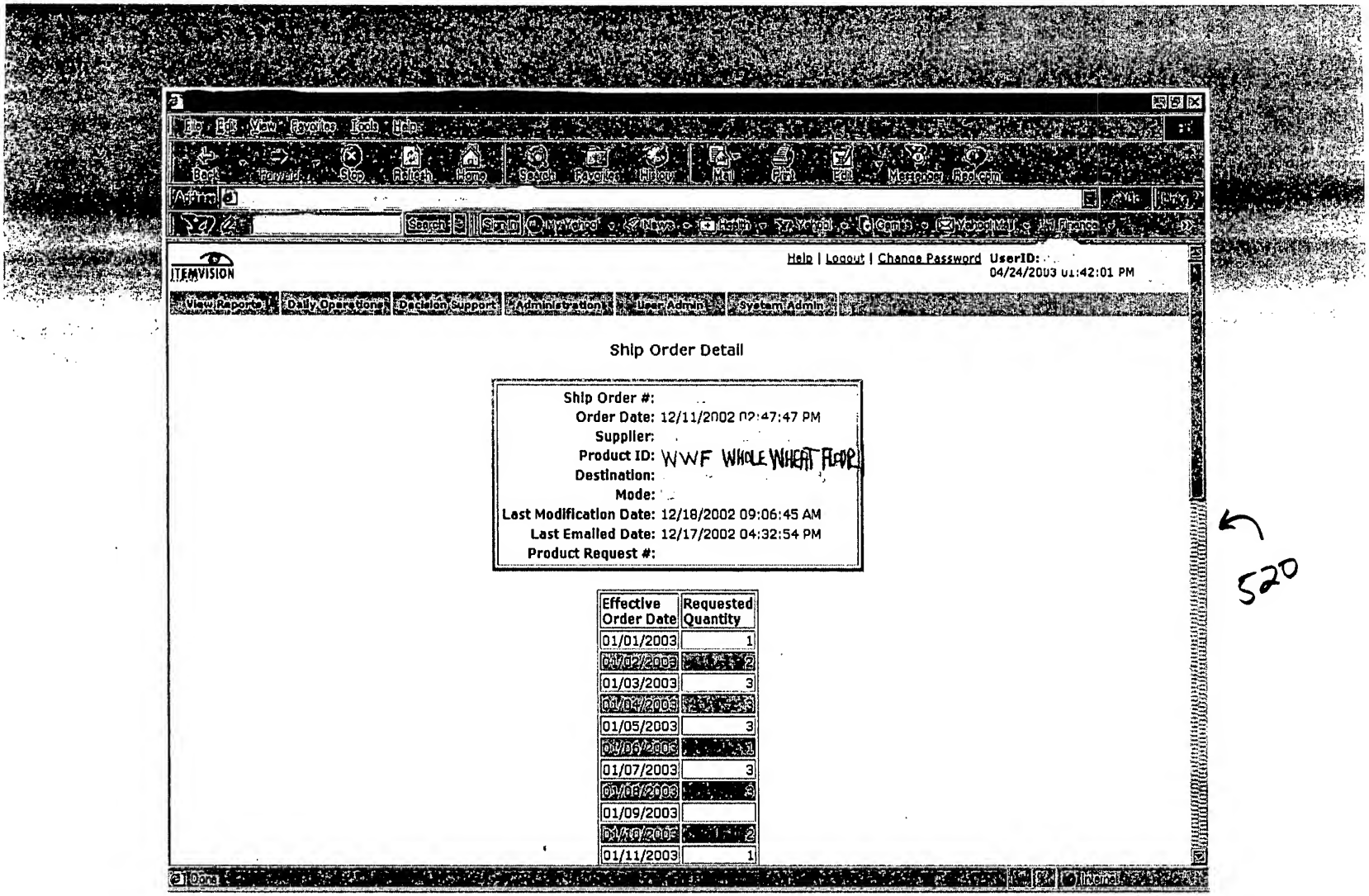
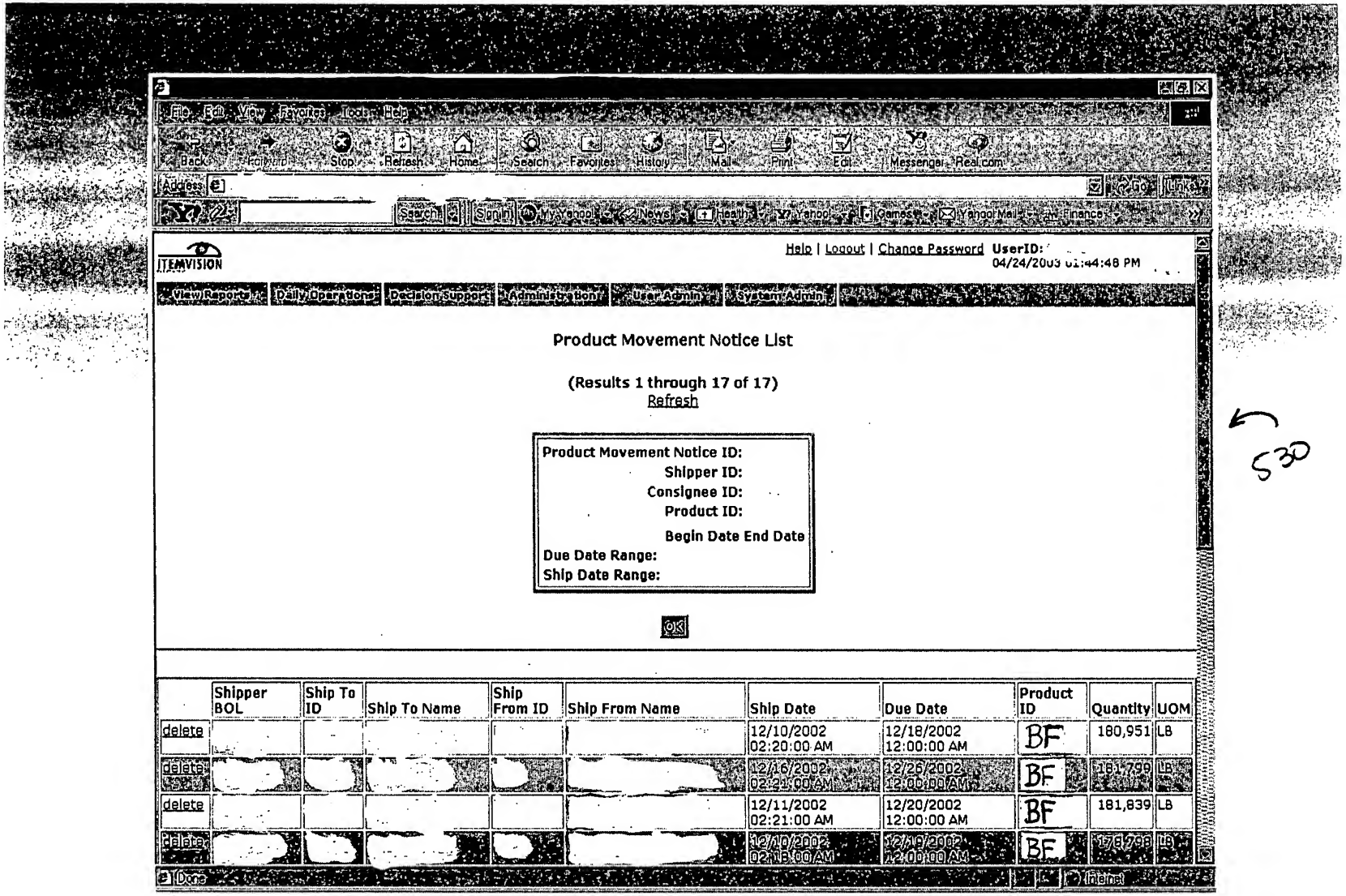
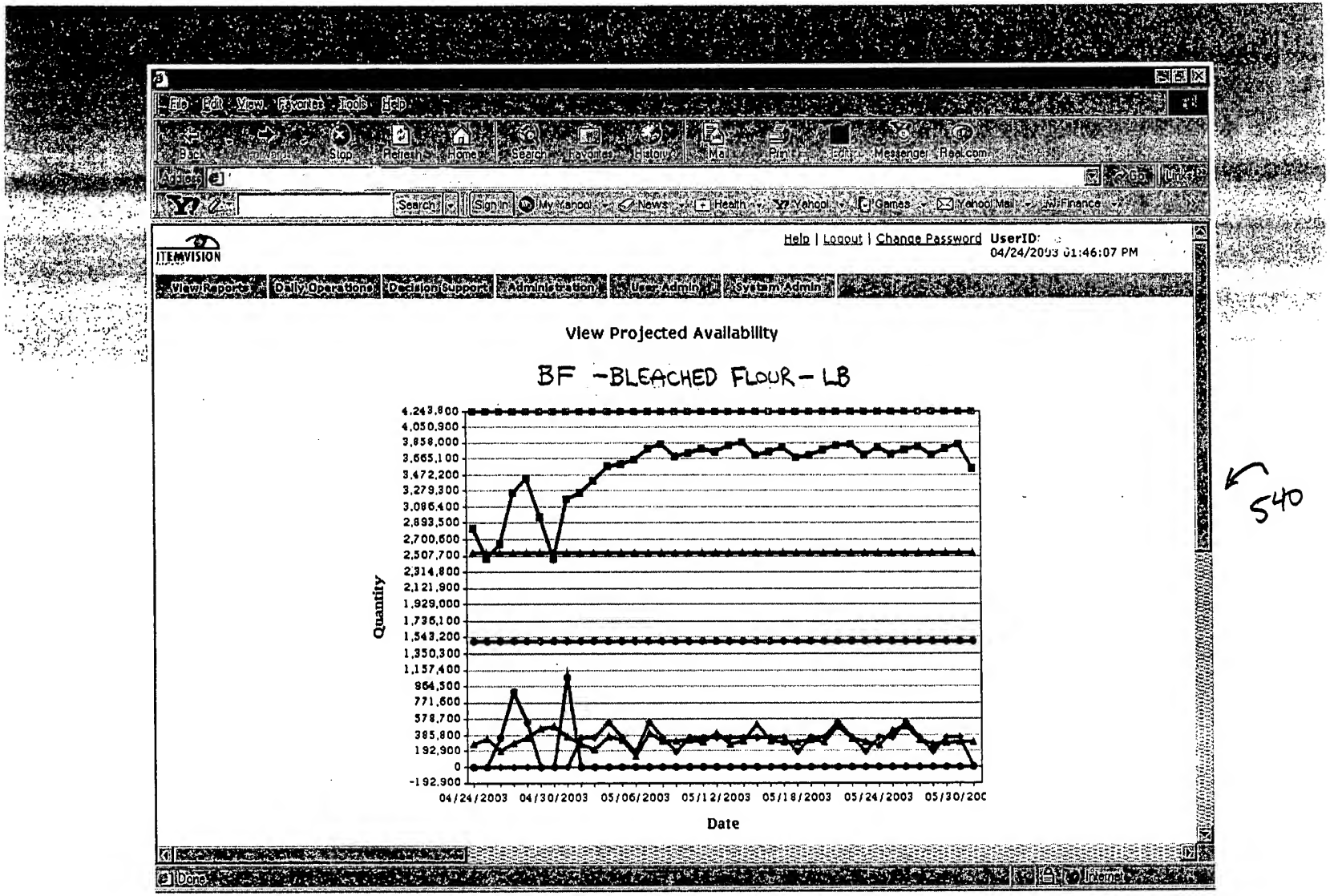

Help | Logout | Change Password UserID:
04/24/2003 01:42:01 PM
View Reports
Daily Operations
Decision Support
Administration
User Admin
System Admin
Ship Order Detail
Ship Order #:
Order Date: 12/11/2002 02:47:47 PM
Supplier:
Product ID: WWF WHOLE WHEAT FLOUR
Destination:
Mode:
Last Modification Date: 12/18/2002 09:06:45 AM
Last Emailed Date: 12/17/2002 04:32:54 PM
Product Request #:
Effective Order Date
Requested Quantity
01/01/2003 1
01/02/2003 2
01/03/2003 3
01/04/2003 3
01/05/2003 3
01/06/2003 1
01/07/2003 3
01/08/2003 3
01/09/2003
01/10/2003 2
01/11/2003 1
520

FIG. 35


ITEMVISION
Help | Logout | Change Password UserID:
04/24/2003 01:44:48 PM
View Reports
Daily Operations
Decision Support
Administration
User Admin
System Admin
Product Movement Notice List
(Results 1 through 17 of 17)
Refresh
Product Movement Notice ID:
Shipper ID:
Consignee ID:
Product ID:
Begin Date End Date
Due Date Range:
Ship Date Range:
OK
Shipper BOL
Ship To ID
Ship To Name
Ship From ID
Ship From Name
Ship Date
Due Date
Product ID
Quantity
UOM
delete
12/10/2002 02:20:00 AM
12/18/2002 12:00:00 AM
BF
180,951
LB
delete
12/16/2002 02:21:00 AM
12/26/2002 12:00:00 AM
BF
181,799
LB
delete
12/11/2002 02:21:00 AM
12/20/2002 12:00:00 AM
BF
181,839
LB
delete
12/10/2002 02:18:00 AM
12/19/2002 12:00:00 AM
BF
178,798
LB
Done
Internet

530

FIG. 36



540

FIG. 37

37139

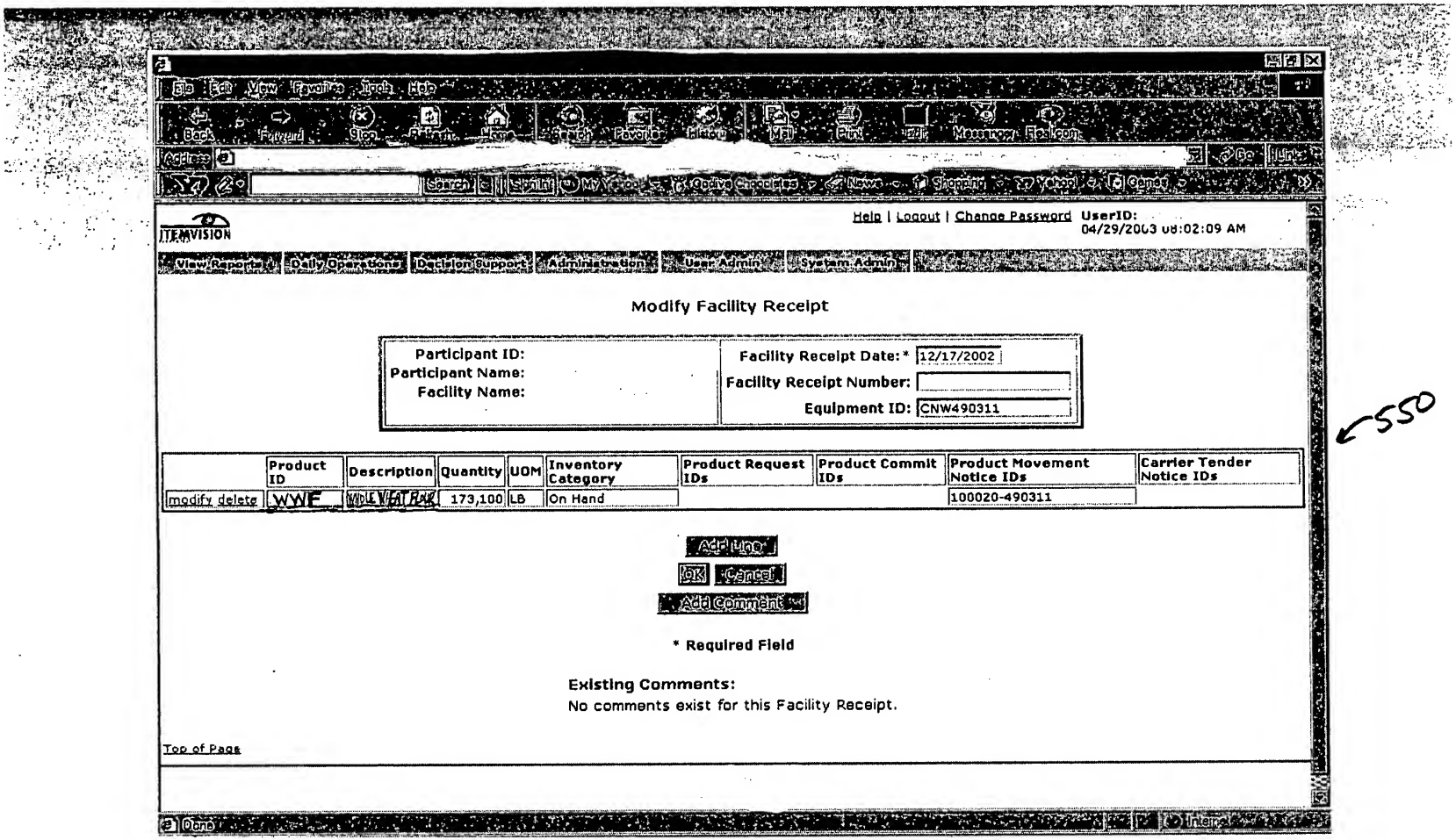
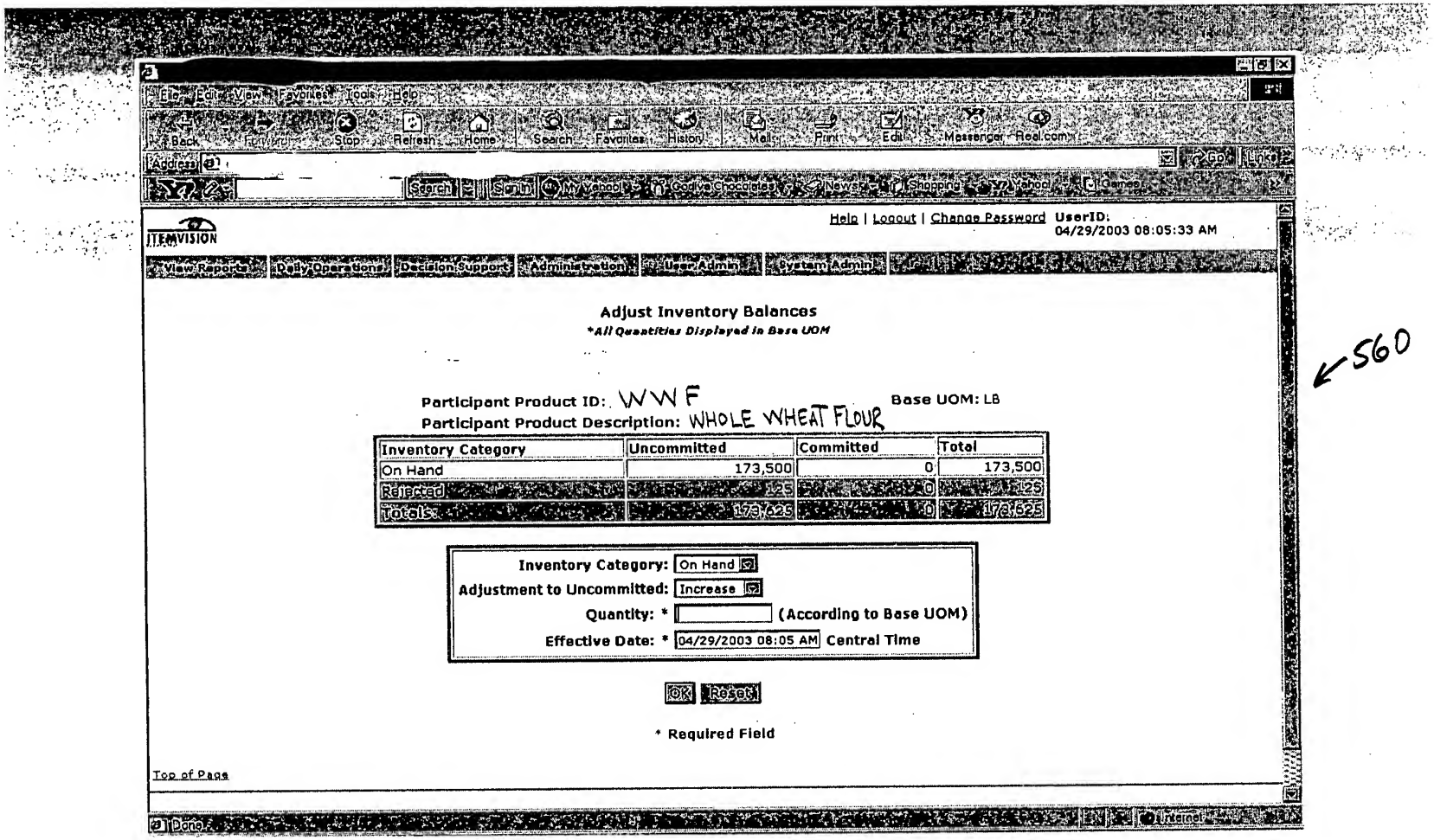

ITEMVISION
Help | Logout | Change Password
UserID:
04/29/2003 08:02:09 AM
View Reports
Daily Operations
Decision Support
Administration
User Admin
System Admin
Modify Facility Receipt
Participant ID:
Participant Name:
Facility Name:
Facility Receipt Date: * 12/17/2002
Facility Receipt Number:
Equipment ID: CNW490311
550
Product ID
Description
Quantity
UOM
Inventory Category
Product Request IDs
Product Commit IDs
Product Movement Notice IDs
Carrier Tender Notice IDs
modify delete
WWF
WIDE VIEW FILM
173,100
LB
On Hand
100020-490311
Add Line
OK
Cancel
Add Comment
* Required Field
Existing Comments:
No comments exist for this Facility Receipt.
Top of Page
Done

FIG. 38

5134


Help | Logout | Change Password UserID:
04/29/2003 08:05:33 AM
View Reports
Daily Operations
Decision Support
Administration
User Admin
System Admin
Adjust Inventory Balances
*All Quantities Displayed in Base UOM
Participant Product ID: WWF
Base UOM: LB
Participant Product Description: WHOLE WHEAT FLOUR
Inventory Category
Uncommitted
Committed
Total
On Hand
173,500
0
173,500
Rejected
125
0
125
Totals
173,625
0
173,625
Inventory Category: On Hand
Adjustment to Uncommitted: Increase
Quantity: * (According to Base UOM)
Effective Date: * 04/29/2003 08:05 AM Central Time
OK
Reset
* Required Field
Top of Page

560

FIG. 39